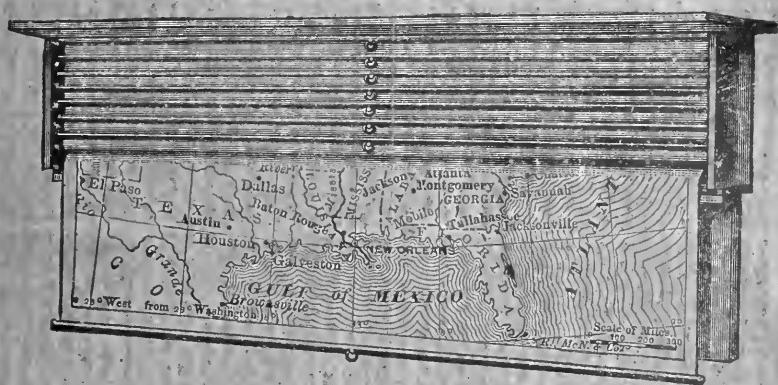


ELEVENTH EDITION.

ILLUSTRATED CATALOGUE

OF

Kindergarten Material, Primary Aids,



MAPS, GLOBES, AND CHARTS,

School Furniture AND Blackboards.

BOSTON, MASS.

J. L. HAMMETT, 352 WASHINGTON STREET.

1895-1896.

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EACH item of any importance in this catalogue is carefully indexed on the opposite page, so that it can be found with little trouble. Customers should not mention the page numbers, however, when ordering goods, because they vary in different editions.

Remember that when * is used before the price of an article it cannot be sent by mail, but must go by express at the expense of the buyer. Those prices without * and having postage added will be sent by mail, when so ordered **on receipt of price and postage**, but all goods forwarded through the mails are sent at the risk of the people to whom they are addressed, and if any are lost they will not be duplicated by us. When enough money is sent to cover the price of the goods but not sufficient for postage we forward by express. If over-payments are made we return the balance immediately.

Goods ordered without remittance accompanying, by people unknown to us, will be sent C. O. D.

We pack all goods very carefully, but cannot be responsible for loss or damage which may occur to them after leaving our hands. In making payments large amounts are most safely sent by postoffice or express money orders, or by New York or Boston drafts. We will accept payments for sums less than one dollar in United States postage stamps of any denomination.

 We do not send out material or books "on approval after examination," and positively decline to exchange goods, except for some fault on our part. In the latter case the error will be corrected at our expense, provided it is reported to us before the goods are returned, so that we may indicate the disposal to be made of them.

SPECIAL DIRECTIONS FOR KINDERGARTNERS.

Each item of kindergarten material is numbered in bold type, on the left-hand side of the page. Always use this number when ordering material, so as to avoid mistakes. Notice exactly what goods are called for by the number you use. If, for instance, you order "One of No. 191," you ask for 12 cards, not 1 card; and if the order is "Twelve of 191," it requires 144 cards and not 12. In some cases a number calls for a single piece, and in others for a package of 12, 50 or 100 pieces. Care on this point will prevent many unpleasant errors. If you order weaving and do not give the size of mats and width of strips we cannot know what you want. If you order sticks and do not specify plain or colored, there is an even chance that we shall not suit you. But if you order regular stock by marginal numbers, and colors by the numbers or symbols in our sample books, all will be clear.



FIRST GIFT.

Six soft rubber balls about $1\frac{1}{2}$ inch in diameter, covered by a crochet or netting of worsted.

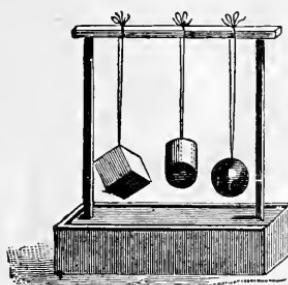
The coverings are in the six colors, red, yellow, blue, green, orange, and purple, one color for each ball. A thread of the covering is attached to each ball, by which to suspend it.

- 1** First Gift, a set of 6 balls in a polished cherry box, with sliding cover, containing crossbeam and supports. Price, \$1.00; postage, \$0.11

As all rubber balls sooner or later become hard and unyielding, many kindergartners prefer a yarn or hair ball covered with the colored worsteds, which has led to keeping constantly in stock besides the above:—

- 1 a** First Gift, six balls, worsted and hair, $1\frac{3}{4}$ inch, in pasteboard box. Price, \$1.25; postage, \$0.10

- 1 b** First Gift, large balls, $2\frac{1}{4}$ inches in diameter . . . Price, \$1.50; postage, \$0.12



SECOND GIFT.

This gift consists of a standard 2-inch sphere, cylinder and cube, provided with the necessary staples and holes for suspending them in the air, an additional plain cube, two rattan axles for revolving the forms and two posts and a cross beam for suspending them; all put up in a polished cherry box, properly constructed for supporting the posts and beam.

The suggestions for using the Second Gift found in "Paradise of Childhood" are considered very valuable by kindergartners.

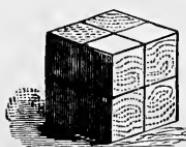
- 3** Second Gift, one set in box, as above, Price, \$0.60; Postage, \$0.23

SECOND GIFT IN BULK.

The necessary expense of this gift when each set is placed in a separate box has suggested, as an economical measure, the packing of the forms in bulk, and we have accordingly prepared sets of twelve each, spheres, cubes and cylinders, packed in a neat, polished wooden box.

The forms in this set are provided with the staples and holes as in the independent sets, but there are no sticks, and there is no extra plain cube. If the sticks for rotating are wanted, any required number will be supplied at small expense.

- 3 a** Box containing 12 of each form, Price, \$3.50
Rattan axles, per dozen, Post paid, .05



THIRD GIFT.

Eight rock-maple cubes one inch square, in a neat, strong, varnished cherry box, with sliding cover.

Directions for use in "Paradise of Childhood," with five full quarto pages of lithographic plates, containing 112 figures.

- 4** Third Gift, one box, as above, Price, \$0.20; Postage, \$0.08



FOURTH GIFT.

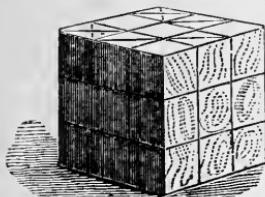
A two-inch cube consisting of eight oblong blocks of rock-maple, each two inches long, one inch wide and one-half inch thick.

In neat, strong varnished cherry box, with sliding cover.

Directions for use in "Paradise of Childhood."

- 5** Fourth Gift, one box, as above.

Price, \$0.20; postage, \$0.08



FIFTH GIFT.

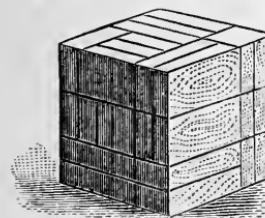
A three-inch cube consisting of twenty-one whole one-inch cubes, six half cubes and twelve quarter cubes.

In varnished cherry box, with sliding cover.

Directions for use in "Paradise of Childhood."

- Fifth Gift, one box, as above.

Price, \$0.40; postage, \$0.20



SIXTH GIFT.

A three-inch cube consisting of eighteen blocks, two inches long by one inch wide and half an inch thick, and three similar blocks divided lengthwise and three crosswise.

Directions for use in "Paradise of Childhood."

- 7** Sixth Gift, one box, as above.

Price, \$0.40; postage, \$0.20

- 8** 100 cubes of the Third Gift, paper box.

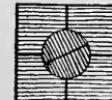
Price, *\$1.50

- 9** 100 good cubes of hard wood, same style and size as Third Gift, but not so perfect in every particular.

Price, *\$1.00

Our blocks for the Third, Fourth, Fifth and Sixth Gifts are made with the greatest care from well-seasoned, hard-maple lumber, thoroughly baked in a heated kiln and worked to accurate steel gauges.

FIFTH GIFT B.



A three-inch cube consisting of twelve whole one-inch cubes, eight similar cubes from each of which a quarter-cylinder has been removed at one corner, three one-inch cubes each divided diagonally into quarters and six one-inch cylinders divided into halves. It has been made and used in Germany for a long time. This gift combines cylindrical with cubical forms and is in the line of the further development of the series of building boxes which Fröbel evidently intended to carry out, from the memoranda which he left.

- 10** Fifth Gift B, one box, as above.

Price, \$0.40; postage, \$0.20

SEVENTH GIFT.

This gift consists of tablets in the natural colors of the wood, half light and half dark, with finely-polished surfaces. The natural woods furnish the contrast necessary to produce the designs in light and shade, and limit the thought of the child to form, without confusing the mind with the additional consideration of color.

After making the designs in light and shade the pupils will be entirely free to exercise their tastes in the selection of colors, which are furnished in great variety in the parquetry papers. This plan secures a harmony when various forms of tablets are brought together in one design which is impossible when different colors are used in the several forms, and seems to much more ac-

ceptably meet the wants of all who have given the matter a fair trial than anything before offered.

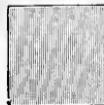
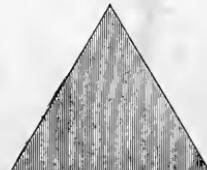
We wish to call particular attention to the form of our tablet E, scalene triangle, which is different from the corresponding triangle used by some prominent kindergartners. Our tablet is one-half the equilateral triangle, and its angles are, 30° , 60° and 90° , all standard and very common angles, which should be made familiar to every child.

American Kindergartners have long since acknowledged the mathematical superiority of this over the German form first adopted.

To any one interested we will mail a three-page explanation of our reasons for making the change in the form of this tablet, many years ago. This little pamphlet is intended to illustrate the practical value of the Seventh Gift and indicate the best methods of using it.

Having adopted the 60° and 30° scalene, an equilateral large enough to contain two scalenes is useful, in order to demonstrate the derivation of the scalene from the equilateral. When all the forms of tablets are to be combined in designs for parquetry work the small equilateral comes into use as symmetrical in size with the other tablets.

In the preceding gifts the child has dealt with solids, but the tablets represent surfaces, and hence are made as thin as is consistent with strength and durability.

		Price.	Postage.
12 A		Eight squares one inch on each side, wooden box,	\$0.25 \$0.02
13 A 2.		Sixteen squares, as above, . . . .	.35 .03
14 B.		Sixty-four half squares, one inch on each leg, wooden box, . . . . . . . .	.50 .03
15 C.		Twenty-four equilateral triangles, one inch on each side, wooden box, . . . .	.40 .02
16 C 2.		Fifty-four equilateral triangles, as above,	.50 .03
17 D.		Sixty-four obtuse-angled triangles, each short side one inch. Acute angles, 30°; wooden box, . . . . .	.60 .03
18 E.		Fifty-six right-angled triangles, 30° and 60°; short side one inch, wooden box, . . . . . .	.60 .04
19 F.		Nine large equilateral tri- angles, two inches on each side, wooden box, . . . .	.30 .03



G. Circles, one inch in diameter.



H. Semi-circles, one inch in diameter.

G and H are not boxed in sets, but are sold in bulk, as ordered. They are added to the list at the request of those kindergartners who believe that the gift should include the circular plane and its divisions, as well as the rectilinear planes.

TABLETS IN BULK.

As a measure of economy the majority of kindergartners are ordering their tablets in bulk, and for their benefit we have prepared finely polished wooden boxes, uniform in size, which will hold five hundred or more tablets, thrown in loosely.

We make boxes about eight inches square and two inches deep, with a central partition, for those tablets of which only a small number are used, thus providing for two forms in one box.

	Price.
20 One box, without partition,	* \$0.25
21 One box, with partition,	*.25

When tablets and boxes are ordered at the same time we will put up the tablets in the boxes at the combined price of the boxes and tablets in bulk.

22 100 tablets, in bulk, any form, except F, . . .	Price, \$0.60; Postage, \$0.03
Tablets F, double the price of the other forms.	

SEVENTH GIFT IN PAPER-BOARD.

The tablets of the Seventh Gift are also made in heavy and very solid paper-board, in light and dark shades, one hundred of each form in a separate paper box.

23 a Seventh Gift, one complete set, paper tablets, as above,	Price, \$1.00; Postage, \$0.12
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Directions with more than 200 lithographed diagrams for this gift in "Paradise of Childhood."

KINDERGARTEN PARQUETRY.

Several years since we devised a new occupation in connection with the Seventh Gift which we termed Kindergarten Parquetry, and which has been received with universal favor by leading kindergartners. The colored papers of the parquetry bear the same relation to the use of the tablets that painting does to drawing. The designs in light and shade are made with the tablets, and the colors are introduced by the use of the parquetry papers. The colored papers used in this occupation are *cut accurately* to the forms and sizes of the tablets in the Seventh Gift. The use of papers inaccurately cut would be positively detrimental to the child. We sell both gummed and ungummed papers, but the latter seem to be preferred by a majority of kindergartners, as the work of gumming the papers neatly affords the best possible practice in manual dexterity. But for use in the primary school and at home, where less supervision is available than in the kindergarten, the gummed papers are the best. The backs of these papers should always be moistened with a brush or sponge, NEVER WITH THE MOUTH.

Two kinds of paper are used in this material, which we term for convenience "COATED PAPERS," and "ENGINE COLORED PAPERS." In the latter the colors are mixed with the pulp of the paper, in the process of manufacture, and cannot be rubbed off by moisture or otherwise, but the standard educational colors of the

coated papers are not possible in the engine colored, although some of the tints are very beautiful.

The parquetry material is put up in the following packages:—

PARQUETRY PAPERS IN BOXES.

EACH BOX CONTAINS 1000 PIECES, ASSORTED FORMS.

		Price, per box.	Postage.
2000	Ungummed engine colored, assorted colors,	\$0.15	\$.04
2001	Gummed engine colored, assorted colors, . . . . .	.35	.05
2002	Ungummed coated, six colors, with one tint and one shade of each, and grays and black, . . . . .	.20	.04
2003	Gummed coated, six colors, with one tint and one shade of each, and grays and black, . . . . .	.40	.05

In our line of educational colored papers the colors are indicated by symbols and for convenience the following symbols are used instead of the full names:—

R.—Red.	G.—Green.
O.R.—Orange Red.	B.G.—Blue Green.
R.O.—Red Orange.	G.B.—Green Blue.
O.—Orange.	B.—Blue.
Y.O.—Yellow Orange.	V.B.—Violet Blue.
O.Y.—Orange Yellow.	B.V.—Blue Violet.
Y.—Yellow.	V.—Violet.
G.Y.—Green Yellow.	R.V.—Red Violet.
Y.G.—Yellow Green.	V.R.—Violet Red.

T indicates tint and S indicates shade. The numerals designate the tints and shades, No. 1, indicating those which are nearest the standard.

In the list of parquetry papers in envelopes, the assortments of colors referred to are as follows:—

ASSORTMENT NO. 1.

R.—R.T. 1.—R.T. 2.—R.S. 1.—R.S. 2.—G.—G.T. 1.—G.T. 2.—G.S. 1.—G.S. 2

ASSORTMENT NO. 2.

O.—O.T. 1.—O.T. 2.—O.S. 1.—O.S. 2.—B.—B.T. 1.—B.T. 2.—B.S. 1.—B.S. 2.

ASSORTMENT NO. 3.

Y.—Y.T. 1.—Y.T. 2.—Y.S. 1.—Y.S. 2.—V.—V.T. 1.—V.T. 2.—V.S. 1.—V.S. 2.

ASSORTMENT NO. 4.

O.R.—O.R.T.—O.R.S.—Y.O.—Y.O.T.—Y.O.S.—Y.G.—Y.G.T.—Y.G.S.

B.G.—B.G.T.—B.G.S.—V.B.—V.B.T.—V.B.S.—V.R.—V.R.T.—V.R.S.

ASSORTMENT NO. 5.

R.O.—R.O.T.—R.O.S.—O.Y.—O.Y.T.—O.Y.S.—G.Y.—G.Y.T.—G.Y.S.

G.B.—G.B.T.—G.B.S.—B.V.—B.V.T.—B.V.S.—R.V.—R.V.T.—R.V.S.

ASSORTMENT NO. 6a.

R.—O.—Y.—G.—B.—V.

ASSORTMENT NO. 6b

Is made up of assortments No. 1, No. 2 and No. 3 (as given above) with the addition of grays, black and white.

ASSORTMENT NO. 7.

Grays, Black and White.

PARQUETRY PAPERS IN LARGE ENVELOPES.

EACH ENVELOPE CONTAINS 1000 PIECES OF ONE FORM.

		Price, per envelope.	Postage.
2004	Ungummed engine colored, assorted colors, Squares, . . .	\$.12	\$.02
2005	Gummed engine colored, assorted colors, Squares, . . .	.30	.05
2006	Ungummed coated, Assortment No. 1, Squares, . . .	.18	.02
2007	Ungummed coated, Assortment No. 2, Squares, . . .	.18	.02
2008	Ungummed coated, Assortment No. 3, Squares, . . .	.18	.02
2009	Ungummed coated, Assortment No. 4, Squares, . . .	.18	.02
2010	Ungummed coated, Assortment No. 5, Squares, . . .	.18	.02
2011a	Ungummed coated, Assortment No. 6a, Squares, . . .	.18	.02
2011b	Ungummed coated, Assortment No. 6 b, Squares, . . .	.18	.02
2012	Ungummed coated, Assortment No. 7, Squares, . . .	.18	.02
2013	Gummed coated, Assortment No. 1, Squares, . . .	.35	.03
2014	Gummed coated, Assortment No. 2, Squares, . . .	.35	.03
2015	Gummed coated, Assortment No. 3, Squares, . . .	.35	.03
2016	Gummed coated, Assortment No. 4, Squares, . . .	.35	.03
2017	Gummed coated, Assortment No. 5, Squares, . . .	.35	.03
2018a	Gummed coated, Assortment No. 6a, Squares, . . .	.35	.03
2018b	Gummed coated, Assortment No. 6 b, Squares, . . .	.35	.03
2019	Gummed coated, Assortment No. 7, Squares, . . .	.35	.03
2020	Ungummed engine colored, assorted colors, Half-squares, . . .	.12	.02
2021	Gummed engine colored, assorted colors, Half-squares, . . .	.30	.03
2022	Ungummed coated, Assortment No. 1, Half-squares, . . .	.18	.02
2023	Ungummed coated, Assortment No. 2, Half-squares, . . .	.18	.02
2024	Ungummed coated, Assortment No. 3, Half-squares, . . .	.18	.02
2025	Ungummed coated, Assortment No. 4, Half-squares, . . .	.18	.02
2026	Ungummed coated, Assortment No. 5, Half-squares, . . .	.18	.02
2027a	Ungummed coated, Assortment No. 6a, Half-squares, . . .	.18	.02
2027b	Ungummed coated, Assortment No. 6 b, Half-squares, . . .	.18	.02
2028	Ungummed coated, Assortment No. 7, Half-squares, . . .	.18	.02
2029	Gummed coated, Assortment No. 1, Half-squares, . . .	.35	.03
2030	Gummed coated, Assortment No. 2, Half-squares, . . .	.35	.03
2031	Gummed coated, Assortment No. 3, Half-squares, . . .	.35	.03
2032	Gummed coated, Assortment No. 4, Half-squares, . . .	.35	.03
2033	Gummed coated, Assortment No. 5, Half-squares, . . .	.35	.03
2034a	Gummed coated, Assortment No. 6a, Half-squares, . . .	.35	.03
2034b	Gummed coated, Assortment No. 6 b, Half-squares, . . .	.35	.03
2035	Gummed coated, Assortment No. 7, Half-squares, . . .	.35	.03
2036	Ungummed engine colored, assorted colors, Equi. Tri., . . .	.12	.02
2037	Gummed engine colored, assorted colors, Equi. Tri., . . .	.30	.03
2038	Ungummed coated, Assortment No. 1, Equi. Tri., . . .	.18	.02
2039	Ungummed coated, Assortment No. 2, Equi. Tri., . . .	.18	.02
2040	Ungummed coated, Assortment No. 3, Equi. Tri., . . .	.18	.02
2041	Ungummed coated, Assortment No. 4, Equi. Tri., . . .	.18	.02
2042	Ungummed coated, Assortment No. 5, Equi. Tri., . . .	.18	.02
2043a	Ungummed coated, Assortment No. 6a, Equi. Tri., . . .	.18	.02
2043b	Ungummed coated, Assortment No. 6 b, Equi. Tri., . . .	.18	.02
2044	Ungummed coated, Assortment No. 7, Equi. Tri., . . .	.18	.02
2045	Gummed coated, Assortment No. 1, Equi. Tri., . . .	.35	.03
2046	Gummed coated, Assortment No. 2, Equi. Tri., . . .	.35	.03
2047	Gummed coated, Assortment No. 3, Equi. Tri., . . .	.35	.03

			Price, per envelope.	Postage.
2048	Gummed coated, Assortment No. 4, Equi. Tri., . . .		\$0.35	\$0.03
2049	Gummed coated, Assortment No. 5, Equi. Tri., . . .		.35	.03
2050a	Gummed coated, Assortment No. 6 a, Equi. Tri., . . .		.35	.03
2050b	Gummed coated, Assortment No. 6 b, Equi. Tri., . . .		.35	.03
2051	Gummed coated, Assortment No. 7, Equi. Tri., . . .		.35	.03
2052	Ung'md engine col'rd, assorted colors, Obtuse-angled Tri., .		.12	.02
2053	Gum'd engine col'rd, assorted colors, Obtuse-angled Tri., .		.30	.03
2054	Ungummmed coated, Assortment No. 1, Obtuse-angled Tri., .		.18	.02
2055	Ungummmed coated, Assortment No. 2, Obtuse-angled Tri., .		.18	.02
2056	Ungummmed coated, Assortment No. 3, Obtuse-angled Tri., .		.18	.02
2057	Ungummmed coated, Assortment No. 4, Obtuse-angled Tri., .		.18	.02
2058	Ungummmed coated, Assortment No. 5, Obtuse-angled Tri., .		.18	.02
2059a	Ungummmed coated, Assortment No. 6 a, Obtuse-angled Tri., .		.18	.02
2059b	Ungummmed coated, Assortment No. 6 b, Obtuse-angled Tri., .		.18	.02
2060	Ungummmed coated, Assortment No. 7, Obtuse-angled Tri., .		.18	.02
2061	Gummed coated, Assortment No. 1, Obtuse-angled Tri., .		.35	.03
2062	Gummed coated, Assortment No. 2, Obtuse-angled Tri., .		.35	.03
2063	Gummed coated, Assortment No. 3, Obtuse-angled Tri., .		.35	.03
2064	Gummed coated, Assortment No. 4, Obtuse-angled Tri., .		.35	.03
2065	Gummed coated, Assortment No. 5, Obtuse-angled Tri., .		.35	.03
2066a	Gummed coated, Assortment No. 6 a, Obtuse-angled Tri., .		.35	.03
2066b	Gummed coated, Assortment No. 6 b, Obtuse-angled Tri., .		.35	.03
2067	Gummed coated, Assortment No. 7, Obtuse-angled Tri., .		.35	.03
2068	Ungummmed engine colored, assorted colors, Scalene Tri., .		.12	.02
2069	Gummed engine colored, assorted colors, Scalene Tri., .		.30	.03
2070	Ungummmed coated, Assortment No. 1, Scalene Tri., .		.18	.02
2071	Ungummmed coated, Assortment No. 2, Scalene Tri., .		.18	.02
2072	Ungummmed coated, Assortment No. 3, Scalene Tri., .		.18	.02
2073	Ungummmed coated, Assortment No. 4, Scalene Tri., .		.18	.02
2074	Ungummmed coated, Assortment No. 5, Scalene Tri., .		.18	.02
2075a	Ungummmed coated, Assortment No. 6 a, Scalene Tri., .		.18	.02
2075b	Ungummmed coated, Assortment No. 6 b, Scalene Tri., .		.18	.02
2076	Ungummmed coated Assortment No. 7, Scalene Tri., .		.18	.02
2077	Gummed coated, Assortment No. 1, Scalene Tri., . . .		.35	.03
2078	Gummed coated, Assortment No. 2, Scalene Tri., . . .		.35	.03
2079	Gummed coated, Assortment No. 3, Scalene Tri., . . .		.35	.03
2080	Gummed coated, Assortment No. 4, Scalene Tri., . . .		.35	.03
2081	Gummed coated, Assortment No. 5, Scalene Tri., . . .		.35	.03
2082a	Gummed coated, Assortment No. 6 a, Scalene Tri., . . .		.35	.03
2082b	Gummed coated, Assortment No. 6 b, Scalene Tri., . . .		.35	.03
2083	Gummed coated, Assortment No. 7, Scalene Tri., . . .		.35	.03
2084	Ungummmed engine colored, assorted colors, Rhombus, .		.12	.02
2085	Gummed engine colored, assorted colors, Rhombus, .		.30	.03
2086	Ungummmed coated, Assortment No. 1, Rhombus, . . .		.18	.02
2087	Ungummmed coated, Assortment No. 2, Rhombus, . . .		.18	.02
2088	Ungummmed coated, Assortment No. 3, Rhombus, . . .		.18	.02
2089	Ungummmed coated, Assortment No. 4, Rhombus, . . .		.18	.02
2090	Ungummmed coated, Assortment No. 5, Rhombus, . . .		.18	.02
2091a	Ungummmed coated, Assortment No. 6 a, Rhombus, . . .		.18	.02
2091b	Ungummmed coated, Assortment No. 6 b, Rhombus, . . .		.18	.02
2092	Ungummmed coated, Assortment No. 7, Rhombus, . . .		.18	.02
2093	Gummed coated, Assortment No. 1, Rhombus, . . .		.35	.03

			Price, per envelope.	Postage.
2094	Gummed coated, Assortment No. 2, Rhombus,	.	.35	.03
2095	Gummed coated, Assortment No. 3, Rhombus,	.	.35	.03
2096	Gummed coated, Assortment No. 4, Rhombus,	.	.35	.03
2097	Gummed coated, Assortment No. 5, Rhombus,	.	.35	.03
2098a	Gummed coated, Assortment No. 6a, Rhombus,	.	.35	.03
2098b	Gummed coated, Assortment No. 6b, Rhombus,	.	.35	.03
2099	Gummed coated, Assortment No. 7, Rhombus,	.	.35	.03
2100	Ungummed engine colored, assorted colors, Oblongs,	.	.12	.02
2101	Gummed engine colored, assorted colors, Oblongs,	.	.30	.03
2102	Ungummed coated, Assortment No. 1, Oblongs,	.	.18	.02
2103	Ungummed coated, Assortment No. 2, Oblongs,	.	.18	.02
2104	Ungummed coated, Assortment No. 3, Oblongs,	.	.18	.02
2105	Ungummed coated, Assortment No. 4, Oblongs,	.	.18	.02
2106	Ungummed coated, Assortment No. 5, Oblongs,	.	.18	.02
2107a	Ungummed coated, Assortment No. 6a, Oblongs,	.	.18	.02
2107b	Ungummed coated, Assortment No. 6b, Oblongs,	.	.18	.02
2108	Ungummed coated, Assortment No. 7, Oblongs,	.	.18	.02
2109	Gummed coated, Assortment No. 1, Oblongs,	.	.35	.03
2110	Gummed coated, Assortment No. 2, Oblongs,	.	.35	.03
2111	Gummed coated, Assortment No. 3, Oblongs,	.	.35	.03
2112	Gummed coated, Assortment No. 4, Oblongs,	.	.35	.03
2113	Gummed coated, Assortment No. 5, Oblongs,	.	.35	.03
2114a	Gummed coated, Assortment No. 6a, Oblongs,	.	.35	.03
2114b	Gummed coated, Assortment No. 6b, Oblongs,	.	.35	.03
2115	Gummed coated, Assortment No. 7, Oblongs,	.	.35	.03
2116	Ungummed coated, Assortment No. 1, Circles,	.	.18	.02
2117	Ungummed coated, Assortment No. 2, Circles,	.	.18	.02
2118	Ungummed coated, Assortment No. 3, Circles,	.	.18	.02
2119	Ungummed coated, Assortment No. 4, Circles,	.	.18	.02
2120	Ungummed coated, Assortment No. 5, Circles,	.	.18	.02
2121a	Ungummed coated, Assortment No. 6a, Circles,	.	.18	.02
2121b	Ungummed coated, Assortment No. 6b, Circles,	.	.18	.02
2122	Ungummed coated, Assortment No. 7, Circles,	.	.18	.02
2123	Gummed coated, Assortment No. 1, Circles,	.	.35	.03
2124	Gummed coated, Assortment No. 2, Circles,	.	.35	.03
2125	Gummed coated, Assortment No. 3, Circles,	.	.35	.03
2126	Gummed coated, Assortment No. 4, Circles,	.	.35	.03
2127	Gummed coated, Assortment No. 5, Circles,	.	.35	.03
2128a	Gummed coated, Assortment No. 6a, Circles,	.	.35	.03
2128b	Gummed coated, Assortment No. 6b, Circles,	.	.35	.03
2129	Gummed coated, Assortment No. 7, Circles,	.	.35	.03
2130	Ungummed coated, Assortment No. 1, Half-circles,	.	.18	.02
2131	Ungummed coated, Assortment No. 2, Half-circles,	.	.18	.02
2132	Ungummed coated, Assortment No. 3, Half-circles,	.	.18	.02
2133	Ungummed coated, Assortment No. 4, Half-circles,	.	.18	.02
2134	Ungummed coated, Assortment No. 5, Half-circles,	.	.18	.02
2135a	Ungummed coated, Assortment No. 6a, Half-circles,	.	.18	.02
2135b	Ungummed coated, Assortment No. 6b, Half-circles,	.	.18	.02
2136	Ungummed coated, Assortment No. 7, Half-circles.,	.	.18	.02
2137	Gummed coated, Assortment No. 1, Half-circles,	.	.35	.03
2138	Gummed coated, Assortment No. 2, Half-circles,	.	.35	.03
2139	Gummed coated, Assortment No. 3, Half-circles,	.	.35	.03

			Price per envelope.	Postage.
2140	Gummed coated, Assortment No. 4, Half-circles,	.	\$0.35	\$0.03
2141	Gummed coated, Assortment No. 5, Half-circles,	.	.35	.03
2142a	Gummed coated, Assortment No. 6 a, Half-circles,	.	.35	.03
2142b	Gummed coated, Assortment No. 6 b, Half-circles,	.	.35	.03
2143	Gummed coated, Assortment No. 7, Half-circles,	.	.35	.03

The packages of ENGINE COLORED PAPERS, ASSORTED COLORS, comprise the following numbers in the sample book:—

1 A—2 A—3 A—4 A—5 A—6 A.
1—2—3—4—5—6.
1 B—2 B—3 B—4 B—5 B—6 B.
7—8—9—10—11—12—13—14—15—16.

PARQUETRY PAPERS IN SMALL ENVELOPES.

Each envelope contains one form and one color only. For the accomodation of those who wish to obtain small quantities of the six colors we furnish the following packages:—

			Price, per envelope.	Postage.
2150	100 Pieces, ungummed coated,	.	\$0.03	\$0.01
2151	100 Pieces, gummed coated,	.	.05	.01
2152	200 Pieces, ungummed coated,	.	.05	.01
2153	200 Pieces, gummed coated,	.	.08	.01
2154	500 Pieces, ungummed coated,	.	.11	.02
2155	500 Pieces, gummed coated,	.	.18	.02

MOUNTING SHEETS FOR PARQUETRY.

Most kindergartners regard guide lines in one-inch squares as indispensable in forming geometrical figures by the laying of tablets, sticks or lentils. There is also a demand for ruled mounting sheets for parquetry and paper cutting, paper dots, strips and rings. We offer in response a white Bristol board ruled in one-inch squares and perforated at one end for tying.

Such sheets are better for mounting work than any books, because a little child is much more interested in making a collection of his work by adding sheet after sheet than he can possibly be while merely filling up a book.

The child is given but one sheet of paper at a time. The work having been "laid" on a squared table the designs are duplicated on the paper by pasting. The duplicating of the guide lines of the table on the paper greatly facilitates the work of pasting. The lines train the eye to see things on a square and also teach the necessity of accuracy. As some patterns are arranged around a central point and others around a central square, it is certain that an arrangement will be more in accord with the fitness of things if it is in the center of the sheet rather than to the right or left, or above or below it.

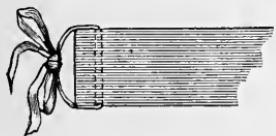
Heretofore we have offered the trade but one style of ruling. But to accommodate these various patterns we now have the sheets ruled in two styles.

Style No. 1 is ruled with a horizontal line and a vertical line crossing each other in the center of the sheet, thus giving a central point.

Style No. 2 is so ruled that the lines form a square in the center of the sheet.

Let the pupil work sharply to the guides till he knows how things ought to be, and then he may try to see how well he can do without the guides. After a sheet has been mounted and is partially dry, it should be pressed between two

pieces of blotting paper, by laying on it a heavy book or other flat object. In case the mounting is only partly done the sheet should be pressed in the same way, so as to secure a flat surface for continuing the work. Care must be taken not to put the work to press while the surface paste is so fresh that it will stick to the blotting paper.



A



B



C

Two or three mounted sheets being prepared, the making of the book begins by looping them together with ribbons, as shown in figure A, which is a sectional view. Each hole should be tied with a loop by itself, (see figure B, which represents a completed book) instead of fastening the sheets with one loop, as indicated in figure C. Sheets may be added from day to day, until the book is too bulky for any further increase.

The designs made with the tablets of the Seventh Gift are reproduced on this mounting paper with parquetry papers. The designs laid with the sticks and rings of the Eighth and Ninth Gifts are reproduced with paper strips and rings, and the designs made with the wooden lentils are reproduced with the square and round paper dots.

UNRULED MOUNTING SHEETS.

	Price.	Postage.
75 12 leaves, 8x8, white Bristol,	\$0.12	\$.05
76 12 leaves, 7x7, white Bristol, . . . . .	.08	.04
215 30 leaves, 10x10, manilla paper, . . . . .	.25	.10
216 100 leaves, 10x10, white Bristol, punched at the back for tying into covers,	1.25	.55

RULED MOUNTING SHEETS.

	Price.	Postage.
79 12 leaves, 7x9, white Bristol, Style No. 1 or No. 2, . . .	\$0.10	\$.05
80 12 leaves, 9x11, white Bristol, Style No. 1 or No. 2, . . .	.12	.06

For explanations of Style No. 1 and No. 2 see preceding page.

MUCILAGE CUPS AND BRUSHES.

	Price.	Postage.
82 12 small glass cups with screw covers, for mucilage or paste, . . .	*\$0.48	
83 12 camel's hair brushes, . . . . .	.30	.02

The glass cups cannot be sent by mail.

EIGHTH GIFT.

STICKS FOR STICK LAYING.

This gift consists of wooden sticks, which are cut to various lengths and used to teach numerical proportions, and for producing elementary rectilinear forms, preparatory to drawing.

PLAIN STICKS.

In this gift we offer a very neat square stick, much preferable to the irregular round stick heretofore used, as it will lie just as placed.

		Price.	Postage.
90	1000 sticks, 5 inches long, plain,	\$0.20	\$.011
91	1000 " 4 " " " . . . . .	.18	.09
92	1000 " 3 " " " . . . . .	.15	.09
93	1000 " 2 " " " . . . . .	.12	.05
94	1000 " 1 " " " . . . . .	.08	.03
95	A paper box with 1000 sticks, assorted from 1 in. to 5 inches,	.20	.08
96	A polished wooden box, with five compartments, containing 1500 sticks, assorted lengths from 1 to 5 inches,	*.40	

COLORED STICKS.

In response to a general demand we offer a full line of colored sticks, which we prepare by a process peculiar to ourselves, and which insures the most beautiful colors.

		Price.	Postage.
97	1000 sticks, 5 inches long, 6 colors,	\$.35	\$.011
98	1000 " 4 " " " " . . . . .	.30	.09
99	1000 " 3 " " " " . . . . .	.25	.07
100	1000 " 2 " " " " . . . . .	.20	.05
101	1000 " 1 " " " " . . . . .	.15	.03
102	A paper box with 1000 sticks, assorted lengths from 1 inch to five inches, . . . . .	.25	.08
103	A polished wooden box with five compartments, containing 1500 sticks, from 1 in. to 5 in. long, 6 colors,	*.60	

In accordance with suggestions in Miss Moore's Manual of Drawing, there is a demand for sticks cut to the diagonals of various figures, and we add several new lengths. When colored sticks are used in the even lengths it is better to order the diagonals in plain wood color.

COLORED STICKS, DIAGONALS.

		Price.	Postage.
104	1000 sticks, diagonal of 5 inch square,	\$.40	\$.012
105	1000 " " " 4 " " . . . . .	.35	.12
106	1000 " " " 4 x 2 inch rectangle, . . . . .	.30	.10
98	1000 " " " 3 inch square, . . . . .	.30	.09
107	1000 " " " 2 " " . . . . .	.25	.07
108	1000 " " " 2 x 1 inch rectangle, . . . . .	.20	.06
109	1000 " " " 1 inch square, . . . . .	.15	.04

PLAIN STICKS, DIAGONALS.

		Price.	Postage.
104W	1000 sticks, diagonal of 5 inch square,	\$.25	\$.015
105W	1000 " " " 4 " " . . . . .	.20	.12
106W	1000 " " " 4 x 2 inch rectangle, . . . . .	.15	.09
91	1000 " " " 3 inch square, . . . . .	.15	.09
107W	1000 " " " 2 " " . . . . .	.12	.06
108W	1000 " " " 2 x 1 inch rectangle, . . . . .	.12	.05
109W	1000 " " " 1 inch square, . . . . .	.08	.03

NINTH GIFT.

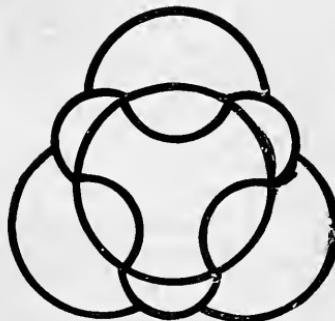
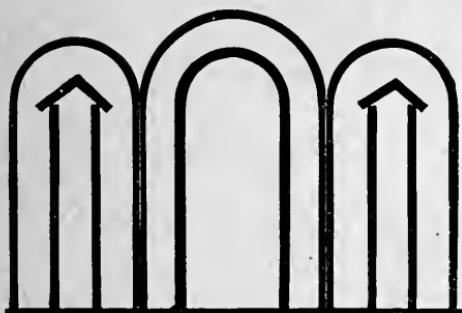
RINGS FOR RING LAYING.

This gift consists of whole, half and quarter rings for laying figures which involve circles. It is a continuation of the Eighth Gift and preparatory to drawing and designing. We furnish whole rings soldered at the joints and also those that are unsoldered. We recommend the former, because a ring is supposed to have no end and the unsoldered ones present two in the hands of children.

Price. Postage.

110 A box containing 12 whole rings each, 1 inch. 1½ inch and 2 inches diameter, 18 half rings each, and 12 quarter rings above sizes, making 126 pieces, with the whole rings neatly soldered,	\$0.65	\$0.15
111 Same as above, not soldered, . . . . .	.50	.15

The sticks of the Eighth Gift and the rings of the Ninth Gift may be used together with very pleasing and profitable results, as shown in the following designs; also see diagrams for Ninth Gift in "Paradise of Childhood."



MRS. HAILMANN'S GUMMED PARQUETRY RINGS.

The favor accorded parquetry as an occupation supplementing the Seventh Gift is so general as to suggest the application of the same feature to the Eighth and Ninth Gifts, so as to make permanent the designs formed with sticks and rings. Mrs. Hailmann has used this parquetry material made by us, in connection with these gifts, for some years, but the difficulty experienced in producing the rings accurately and economically has prevented their public sale. After much experimenting we are able to manufacture gummed paper rings which are perfectly concentric, at a comparatively reasonable cost.

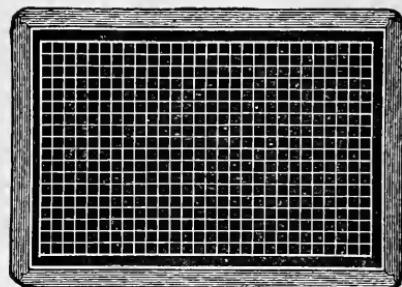
We make, however, only the whole rings, in one, one and a half and two-inch sizes, because the material is so delicate and it is an easy matter to cut them into halves and quarters as wanted. We also make straight strips, which can also be readily cut into lengths of one, two, three or four inches. With this material any of the designs which have been laid with sticks and rings can be readily transferred to mounting paper.

		Price.	Postage.
112 1 box, 500 rings, assorted, 1, 1½ and 2 inches,	\$0.40	\$0.04	
115 1 box, 300 strips, 5 inches long, . . . . .	.10	.04

TENTH GIFT OR OCCUPATION.

DRAWING.

The materials for this gift are slates and paper, ruled in equal squares, the slates being used first and then the paper. The slates are ruled on one side in perfect quarter-inch squares, with a margin which separates the ruled part from the frame. This method of ruling is a great convenience in drawing from dictation, because with it the child always has a definite corner or margin from which to count. The reverse side of the slate is plain and the frame is protected with braid, so that it is noiseless. In addition to the ruled slates we carry a line, six by nine inches, which are dotted in quarter-inch squares, as some kindergartners prefer a dotted rather than a ruled surface.



MARGINAL RULED SLATE.

		Price.
117	1 slate, 7 x 11, noiseless, marginal ruling,	*\$.20
118	1 slate, 6 x 9, " " " .	*.18
118a	1 slate, 6 x 9, " dotted, .	*.18

RULED DRAWING PAPER.

Our special drawing paper, made with a pencil surface, is printed from engraved plates in ruled squares, with a margin on each page, a combination which makes a very desirable article.

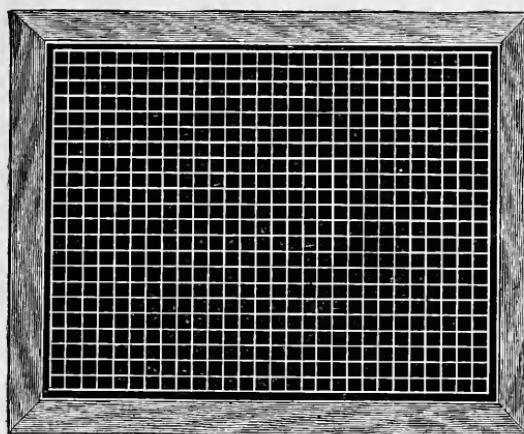
		Price. Postage.
119	12 drawing books, 8 x 11, 12 leaves, $\frac{1}{4}$ inch squares,	\$1.00 \$0.32
120	12 drawing books, 8 x 11, 12 leaves, 1-6 inch squares,	1.00 .32
121	12 drawing books, 8 x 11, 12 leaves, $\frac{1}{8}$ inch squares,	1.00 .32
122	12 drawing books, 7 x 8, 12 leaves, $\frac{1}{4}$ inch squares, . . . . .	.75 .25
123	12 drawing books, 7 x 8, 12 leaves, 1-6 inch squares, . . . . .	.75 .25
124	12 drawing books, 7 x 8, 12 leaves, $\frac{1}{8}$ inch squares, . . . . .	.75 .25
125	50 sheets paper, 8 x 11, ruled both sides, $\frac{1}{4}$ inch squares, . . . . .	.35 .11
126	50 sheets paper, 8 x 11, ruled both sides, 1-6 inch squares, . . . . .	.35 .11
127	50 sheets paper, 8 x 11, ruled both sides, $\frac{1}{8}$ inch squares, . . . . .	.35 .11
131	25 sheets paper, 17 x 22, ruled both sides, entire surface, $\frac{1}{4}$ inch squares, . . . . .	.50 .20
132	25 sheets paper, 17 x 22, ruled both sides, entire surface, 1-6 inch squares, . . . . .	.50 .20
133	25 sheets paper, 17 x 22, ruled both sides, entire surface, $\frac{1}{8}$ inch squares, . . . . .	.50 .02
134	25 sheets, 17 x 22, ruled one side, entire surface, $\frac{1}{4}$ in. squares, . . . . .	.45 .20
135	25 sheets, 17 x 22, ruled one side, entire surface, 1-6 in. squares, . . . . .	.45 .20
136	25 sheets, 17 x 22, ruled one side, entire surface, $\frac{1}{8}$ in. squares, . . . . .	.45 .20

DOTTED DRAWING PAPER.

We also have a line of dotted drawing paper and books in half-inch squares, for those kindergartners and primary school teachers who prefer a dotted rather than a netted surface for drawing.

		Price. Postage.
137	25 sheets dotted paper, 7 x 9,	\$.15 \$.08
138	12 books, 7 x 9, 12 leaves,	1.00 .32

Samples of our drawing paper will be mailed free to any kindergartner or primary school teacher on application.



COMBINATION METALLIC BLACKBOARD.

This board has a slated surface on a metal ground, and its white metallic lines are finer and more durable than any which can be painted on a blackboard. Chalk will not cling to the painted lines and they are a fruitful source of imperfections in the drawing. For this reason our metallic board is particularly recommended by kindergartners, after several years of trial. The board is framed in ash and both sides are slated. One side is ruled in one-inch squares, with a margin, the reverse being left plain for general work.

139 One combination metallic blackboard, 24 x 30, inside, . . . Price, *\$3.50

ELEVENTH GIFT OR OCCUPATION.

PERFORATING.

		Price.	Postage.
140	50 sheets, 8 x 11, ruled one side, $\frac{1}{4}$ in. squares, margin,	\$0.25	\$0.11
141	50 " 8 x 11, ruled one side, $\frac{1}{8}$ in. squares, margin, . . .	.25	.11
142	50 " 8 x 11, ruled one side, $\frac{1}{4}$ in. squares, margin, . . .	.25	.11
143	50 " heavy paper, 7 $\frac{1}{2}$ x 10, plain, . . . . .	.20	.12
144	50 cards, 4 x 4 in. six colors netted, $\frac{1}{8}$ in. squares, margin,	.25	.07
145	50 " 4 x 4 in. six colors netted, $\frac{1}{4}$ in. squares, margin,	.25	.07
145a	50 " 4 x 4 in. white, netted, $\frac{1}{4}$ inch squares, margin, . .	.25	.07
145b	50 " 4 x 4 in. white, netted, $\frac{1}{8}$ inch squares, margin, . .	.25	.07
Bristol-board, entire surface ruled one side.			
146	25 sheets white, 5 $\frac{1}{2}$ x 7 $\frac{1}{2}$, $\frac{1}{4}$ inch squares, no margin, . . .	.15	.08
147	25 " " 5 $\frac{1}{2}$ x 7 $\frac{1}{2}$, $\frac{1}{8}$ inch squares, no margin, . . .	.15	.08
148	25 " " 5 $\frac{1}{2}$ x 7 $\frac{1}{2}$, $\frac{1}{4}$ inch squares, no margin, . . .	.15	.08
149	25 " tinted, ast'd tints, 5 $\frac{1}{2}$ x 7 $\frac{1}{2}$, $\frac{1}{4}$ in. squares, no margin,	.15	.08
150	25 " " ast'd tints, 5 $\frac{1}{2}$ x 7 $\frac{1}{2}$, $\frac{1}{8}$ in. squares, no margin,	.15	.08
151	25 " " ast'd tints, 5 $\frac{1}{2}$ x 7 $\frac{1}{2}$, $\frac{1}{4}$ in. squares, no margin,	.15	.08
152	25 " white, 7 x 9 inches, $\frac{1}{4}$ inch squares, no margin, . .	.25	.08
153	25 " " 7 x 9 inches, $\frac{1}{8}$ inch squares, no margin, . .	.25	.08
154	25 " " 7 x 9 inches, $\frac{1}{4}$ inch squares, no margin, . .	.25	.08
155	25 " tinted, 7 x 9 inches, $\frac{1}{4}$ inch squares, no margin, . .	.25	.08
156	25 " " 7 x 9 inches, $\frac{1}{8}$ inch squares, no margin, . .	.25	.08

					Price.	Postage.
157	25	sheets tinted, 7 x 9 inches, $\frac{1}{8}$ inch squares, no margin,	.	.	\$0.25	.08
158	25	" white, $5\frac{1}{2}$ x $7\frac{1}{2}$, $\frac{1}{4}$ inch, with margin,	.	.	.20	.08
159	25	" " $5\frac{1}{2}$ x $7\frac{1}{2}$, $\frac{1}{6}$ " " " .	.	.	.20	.08
161	25	" tinted, $5\frac{1}{2}$ x $7\frac{1}{2}$, $\frac{1}{4}$ " " " .	.	.	.20	.08
161a	25	" " $5\frac{1}{2}$ x $7\frac{1}{2}$, $\frac{1}{6}$ inch, with margin,	.	.	.20	.08
163	25	" white, 7 x 9, $\frac{1}{4}$ " " " .	.	.	.35	.12
164	25	" " 7 x 9, $\frac{1}{8}$ " " " .	.	.	.35	.12
166	25	" tinted, 7 x 9, $\frac{1}{4}$ " " " .	.	.	.35	.12
167	25	" " 7 x 9, $\frac{1}{8}$ " " " .	.	.	.35	.12
169	25	" white plain, not ruled, 7 x 9 inches,	.	.	.25	.12
170	25	" tinted plain, not ruled, 7 x 9 inches,	.	.	.25	.12

To any one requiring these tinted cards we will send samples of tints numbered, from which to order.

					Price.	Postage.
171	12	perforating needles, handles, 2 inches long,	.	.	\$0.35	\$0.02
172	1	perforating needle, handle, 2 inches long,	.	.	.03	.02

Unless otherwise ordered we send our No. 1 size perforating needle, which is made specially strong, and of low temper, for the use of the small children who may break a finer instrument. For finer work with older children and training classes, we have Nos. 6 and 8, corresponding in size with the same numbers of sewing needles, and in these two sizes of needles we furnish handles three inches long when so ordered, but the two-inch handles will be sent in all cases unless the longer ones are designated.

					Price.	Postage.
173	12	perforating cushions,	.	.	\$1.50	\$0.58
174	1	perforating cushion,	.	.	.13	.05

The perforating cushions are made of extra heavy and fine felt with strong card-board backs.

TWELFTH GIFT OR OCCUPATION. EMBROIDERY.

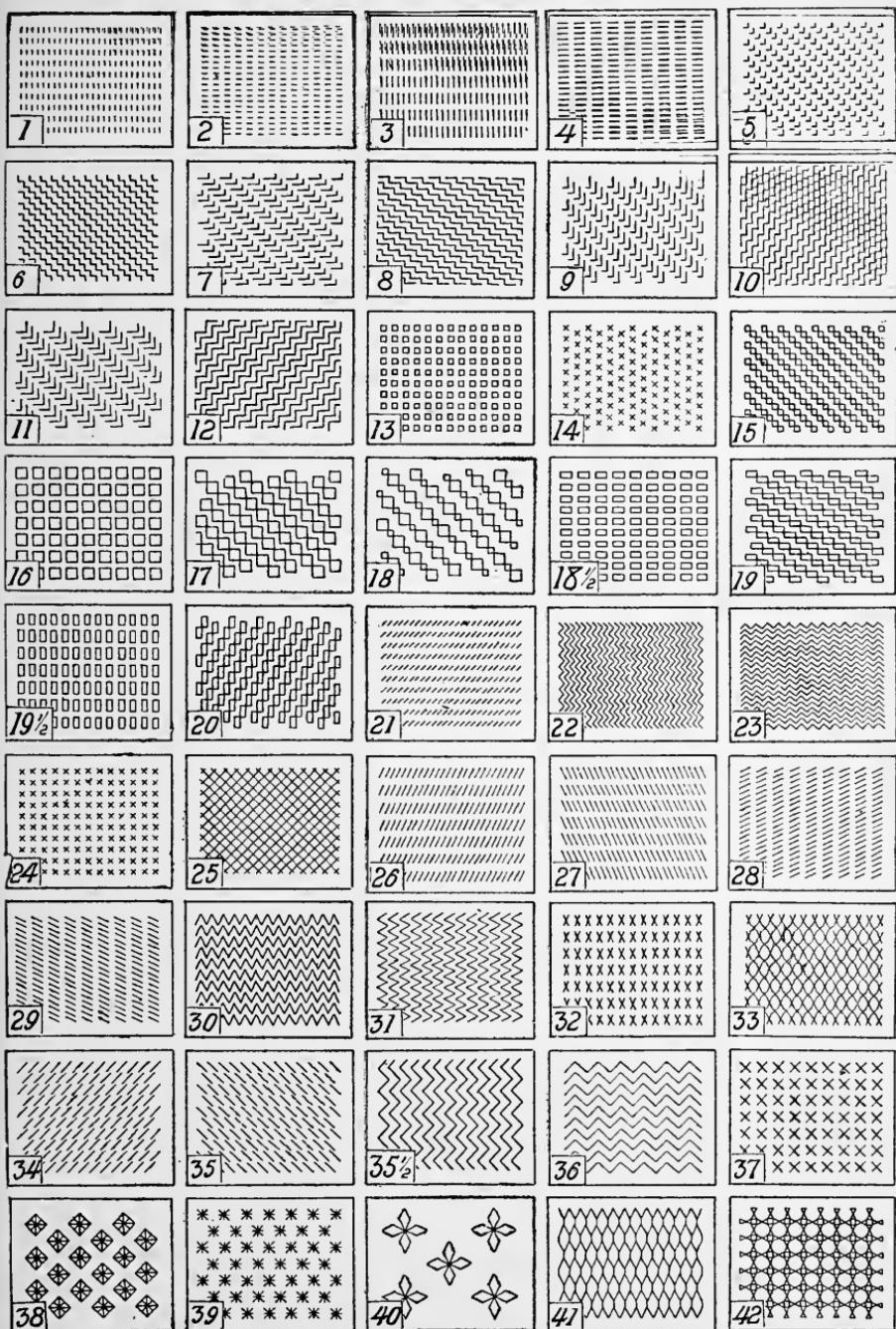
There is no part of the kindergarten course which gives the children more real pleasure than the embroidery, which can be carried on indefinitely. At first their little hands have trouble in managing the card, needle and thread, but because the child loves the work he carefully and patiently overcomes the mechanical difficulties, and by and by is able to express himself in beautiful designs which are a study in both form and color. The additions and improvements which are constantly being made in the material used render this occupation more and more fascinating.

BRADLEY'S PRICKED SEWING CARDS.

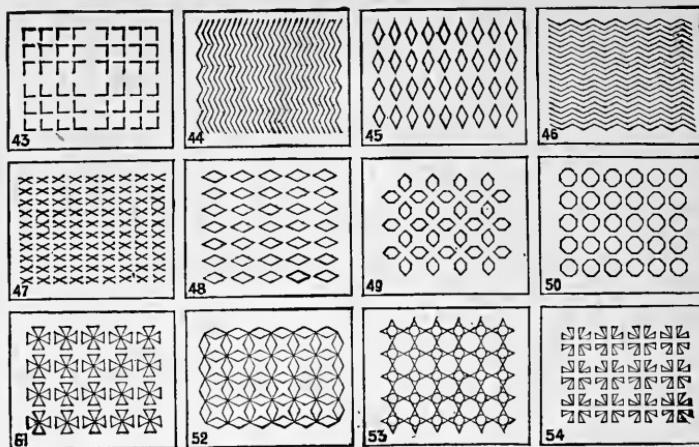
The extended line of cards of different sizes and perforated for a large number of designs for sewing which we manufacture have become a recognized necessity. They are not merely perforated board, of which the entire surface is punctured in regular squares, but the perforations are exactly adapted to the designs to be produced.

The 57 designs shown on the adjacent plates embrace a most elaborate series of sewing, based on the German school of embroidery. American kindergartners have materially abridged the number to be used in a course, and several years ago the ladies of the Florene, Mass., Kindergarten made a selection which we called the "Florene School of Sewing," comprising the following numbers: 3-4-11-12-16-17-19 $\frac{1}{2}$ -20-18 $\frac{1}{2}$ -19-34-35-35 $\frac{1}{2}$ -36-37-26-27-28-29-30-31-32-39-40.

Afterward another selection was made by a lady connected with the Normal School at Winona, Minn., to which we gave the name of the "Winona School of



Reduced Representations of the Embroidery Designs as Sewed on the
No. 180 Pricked Sewing Cards.



DESIGNS No. 180.—CONTINUED.

Sewing." This list comprises 28 designs, to be used in the following order: 3-4-43-16-19 $\frac{1}{2}$ -18 $\frac{1}{2}$ -34-35-35 $\frac{1}{2}$ -36-37-39-26-27-44-30-32-45-28-29-31-46-47-48-40-42-49-50.

The fifty-seven designs are produced from forty-seven patterns of pricking, as for instance, numbers 1-2-13-24-25 are all made with one pattern of pricking, as also 3-19½-32-33; and 16-37; and 4-18½-47. In ordering state how many cards are required for each *embroidered design*, according to the number on the plates; remember that there may be more cards of one style of *pricking* than the number ordered of any *one embroidery design*.

Formerly the children were expected to prick their cards before beginning the sewing, but it was found that the continuous pricking of so many holes in regular order required the closest application and that it hurt the eyes. Consequently many teachers felt constrained to assume the drudgery of pricking the cards for the children. But as there are over five hundred holes in many of the patterns, the advantage of ready-pricked cards to both pupils and teachers will be generally admitted.

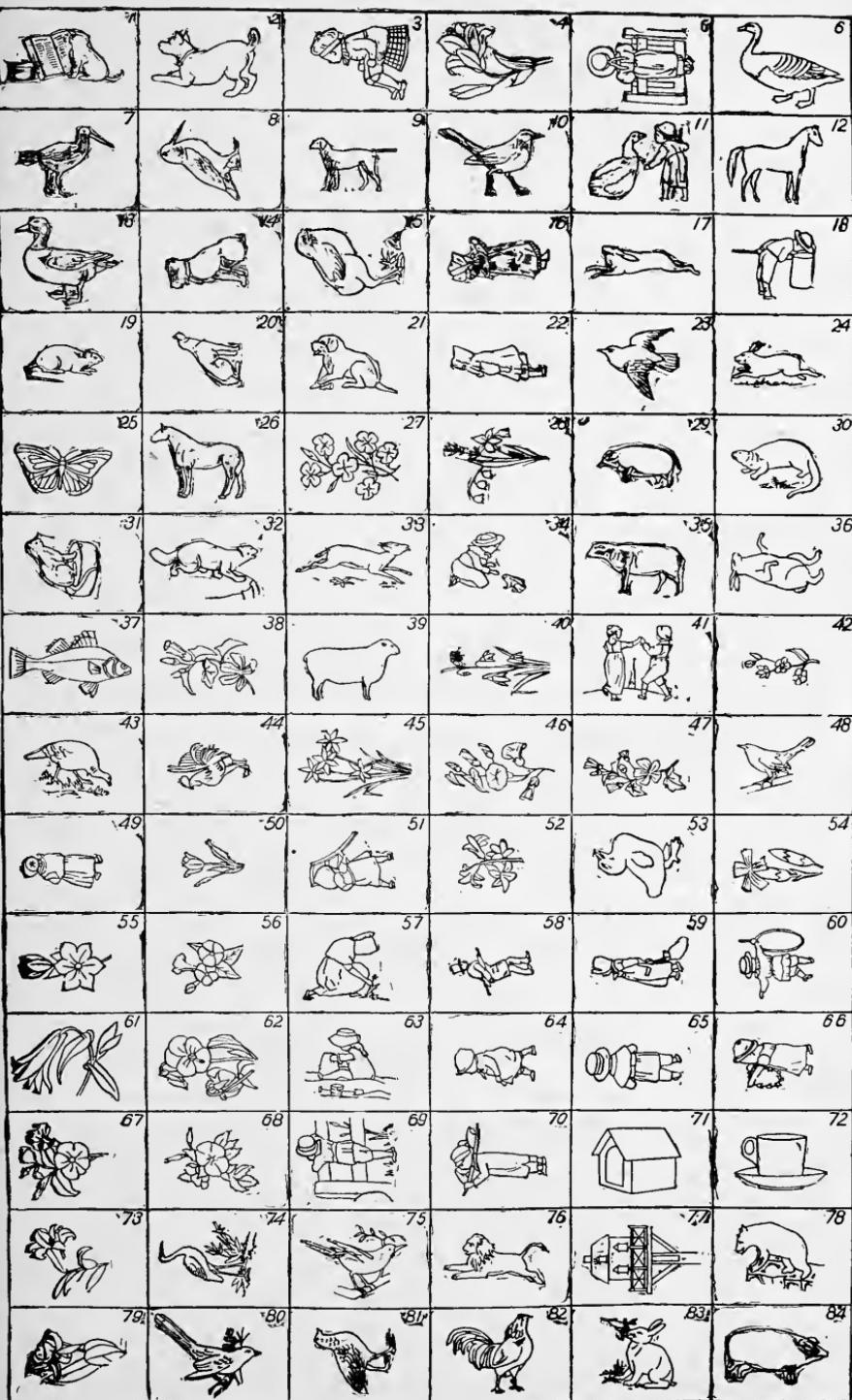
180 100 pricked cards, white, $3\frac{3}{4} \times 4\frac{1}{2}$, assorted as may be ordered from diagrams.

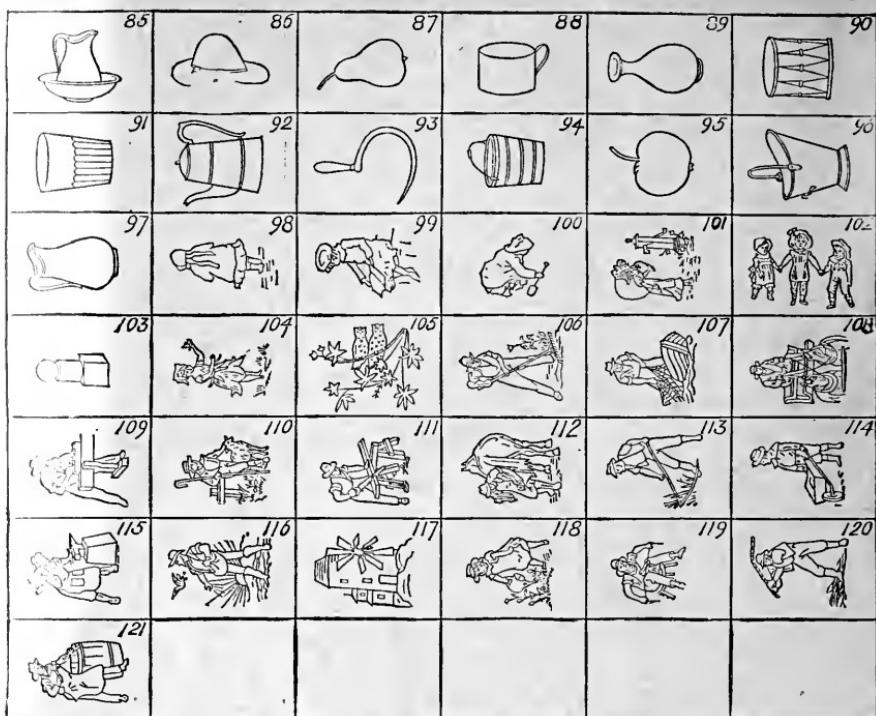
No. 180 covers all the different patterns of pricked cards represented on the plates; hence in ordering each pattern must be designated by its design number.

So, in ordering, say, "No. 180 pricked cards," and then give the number wanted of each design number.

		Price.	Postage
181	100 white cards, $3\frac{3}{4} \times 4\frac{1}{2}$ in. perforated regularly in $\frac{1}{8}$ in. sq'r's,	\$1.00	\$0.10
182	100 tinted cards, $3\frac{3}{4} \times 4\frac{1}{2}$ in. perforated regularly in $\frac{1}{8}$ in. sq'r's,	1.00	.10
183	100 white cards, $3\frac{3}{4} \times 4\frac{1}{2}$ inch not pricked, . . . . .	.25	.10
184	100 tinted cards, $3\frac{3}{4} \times 4\frac{1}{2}$ inch not pricked, . . . . .	.30	.10
185	12 white cards, 6×8 , perforated in $\frac{1}{4}$ inch squares, . . . . .	.35	.05
186	12 " " 7×9 , " $\frac{1}{2}$ " " . . . . .	.35	.05
187	12 " " 6×8 , " $\frac{1}{8}$ " " . . . . .	.35	.05
188	12 tinted " 6×8 , " $\frac{1}{4}$ " " . . . . .	.35	.05
189	12 " " 7×9 , " $\frac{1}{2}$ " " . . . . .	.35	.05
190	12 " " 6×8 , " $\frac{1}{4}$ " " . . . . .	.35	.05

Aside from these numbers we always have in stock fine Bristol-card in sheets





Price. Postage.

- | | | Price. | Postage |
|------------|--|--------|---------------|
| 191 | 12 white cards, $4 \times 5\frac{1}{2}$, with designs for outline embroidery, selected to order from diagrams as above, | \$0.25 | \$0.04 |
| 192 | 12 white cards, $5\frac{1}{2} \times 7\frac{1}{2}$, with designs for outline embroidery, selected to order from designs as above, | .35 | .04 |

Nos. 191 and 192 cover all the patterns of design cards as represented in the diagrams, and hence in ordering each design must be designated by its number. Thus say, "191 Design Cards, one card each, 21-24-59," etc.

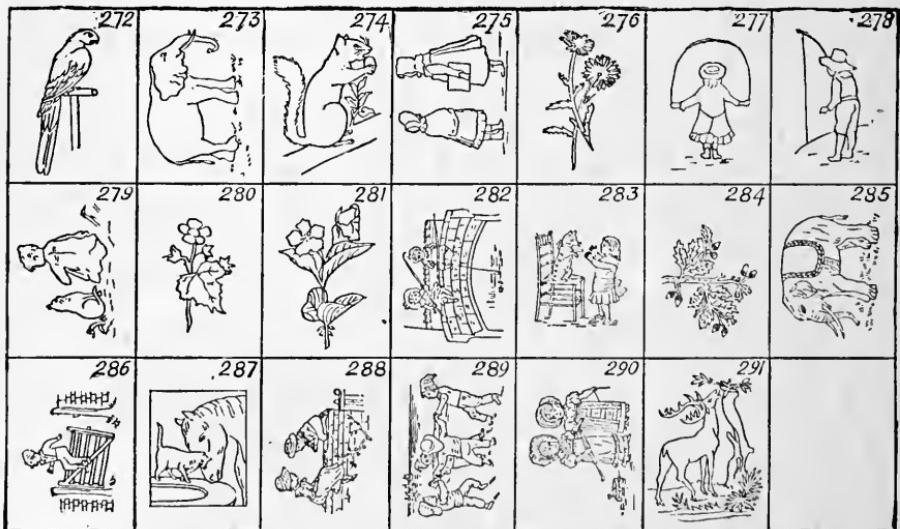
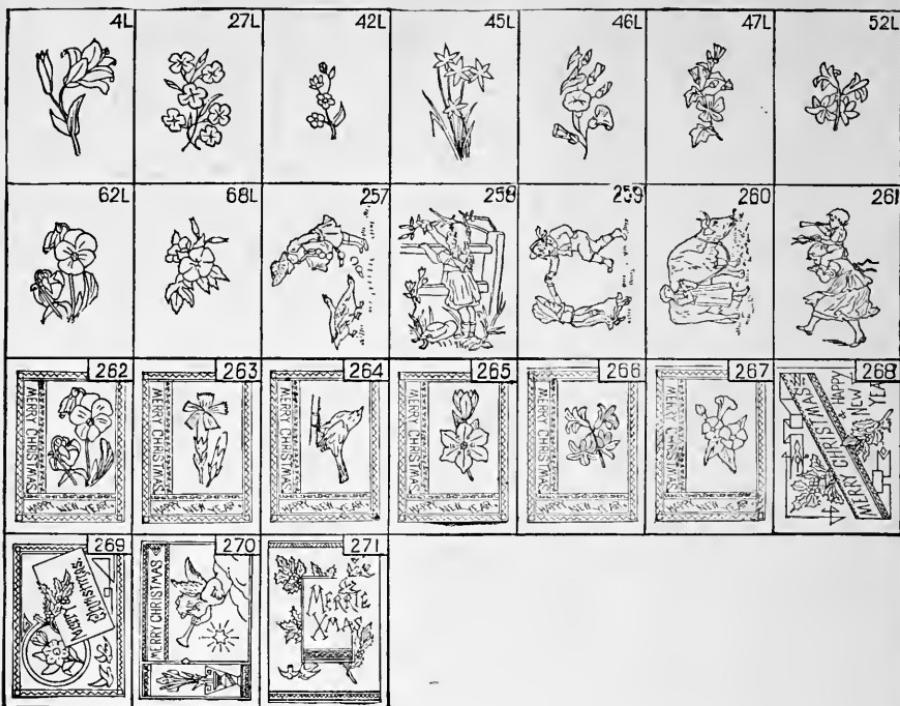
We present many attractive designs in this line of embroidery cards. Some of them are duplicated on large cards, as a study of the plates on the following pages will show, the same number being retained, with the letter L, which indicates "large."

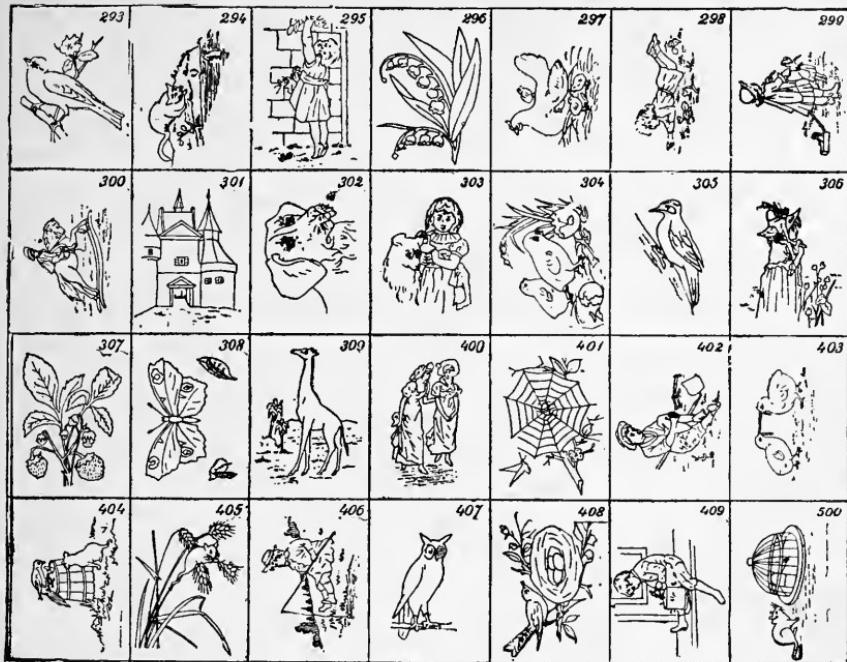
Some of the designs representing the popular trades, which are found in numbers 106-121, have been enlarged so as to bring the holes farther apart. These numbers, however, are not duplicated on the diagrams of the large cards, and customers wishing the large designs of the trades must use the numbers on the small cards, at the same time mentioning that they want the large size.

The system, original with us, of cataloguing each design by a reduced diagram and its number, instead of putting the cards up in envelopes having arbitrary selections, has been adopted in foreign countries where special attention is paid to advanced methods of industrial education.

In this connection we would like to call attention to Miss Arnold's Natural History Sewing Cards, which have been devised to help in giving systematic lessons in regard to plants and animals and also to our special line of Columbian and Bible Sewing Cards. For particulars see the other department of this catalogue.







No. 192 OUTLINE EMBROIDERY CARDS, 5 1/2 x 7 1/2.

EMBROIDERY SILK AND THREAD.

We carry in stock the following numbers of Etching Silk for outline embroidery. It has a soft finish, does not split and will fray less in working than any other material. The numbers indicate the colors, which are described as accurately as possible by name. Order by number.

506 Canary.	544 Dark Garnet.	587 Dark Bronze Green.
514 Purple.	551 Green.	603 Gray.
519 Baby Blue.	554 Grass Green.	690 Mahogany.
521 Light Blue.	558 Light Old Gold.	545 Dark Red Brown.
523 Blue.	559 Old Gold.	739½ Light Sailor Blue.
525 Dark Blue.	560 Dark Old Gold.	611 Dark Marine Blue.
530 Brown.	561 Olive.	612 Black.
572 Light Pink.	562 Olive Brown.	616 Cream White.
538 Cherry.	573½ Rose Pink.	623 Peacock Blue.
539 Scarlet.	575 Dark Rose Pink.	626 Light Green Blue.
542 Light Cardinal.	583 Olive Green.	627 Green Blne.
543 Cardinal.	585 Light Bronze Green.	753 Light Olive.

We do not include these in our regular catalogue numbers, and in ordering you will say, Etching Silk, so many spools, such a number; or, one spool each, several numbers. Be very definite, that there may be no mistakes.

194 1 spool, including postage Price, \$0.06

At the solicitation of many kindergartners with whom the cost of silk is an item to be considered, we have had made to order a quality of cotton thread, soft and unfinished, in seven colors: Red, Blue, Yellow, Green, Orange, Purple, and Gray.

These spools of cotton contain many times the length on the spools of silk.

196 1 dozen spools, assorted colors Price, Postage, \$0.60 \$0.10

WORSTEDS.

We offer a line of worsteds for the sewing, usually called Split Zephyrs, which are sometimes preferred to the silk or thread. In order to obtain the colors which best conform to our color scheme we buy imported wools of the finest quality. The assortment includes the six standards, with one tint and shade of each, three browns, two grays and black and white, listed as follows:—

R. T.—R.—R. S.—O. T.—O.—O. S.—Y. T.—Y.—Y. S.—G. T.—G.—G. S.—B. T.—B.—B. S.—V. T.—V.—V. S.—Light Brown—Medium Brown—Dark Brown—Gray 1—Gray 2.

	Price.	Postage.
197 1 lap or skein,	\$0.10	\$0 02

NEEDLES.

We furnish needles suitable for either silk, thread or worsted. These needles have long eyes, are easily threaded and the points are blunt. They are known by some dealers as rug or tapestry needles and are commonly called worsted needles. No. 23 is the coarser needle and most desirable for children's use. No. 25 is finer, being often preferred by kindergartners.

	Price.	Postage.
199 1 paper, containing 25 needles,	\$0.10	\$0.01

THIRTEENTH GIFT OR OCCUPATION. PAPER CUTTING.

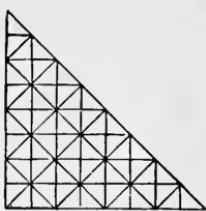


FIG. 1.

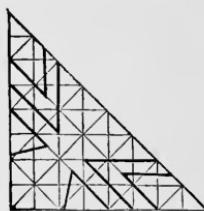


FIG. 2.

This occupation is the making of symmetrical designs by folding and cutting squares of papers in various ways. The child's natural propensity to destroy with scissors is here guided so ingeniously as to produce wonderful results.

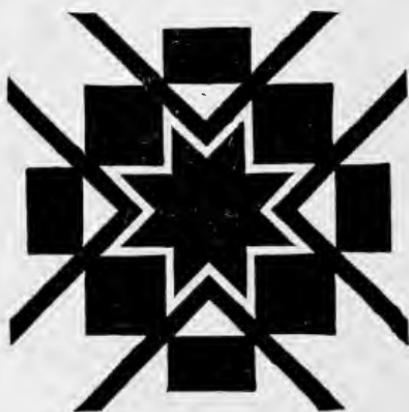


FIG. 3.

folded paper. Fig. 2 represents the same surface with cutting marks applied. Fig. 3 is the same design when cut. The ruled lines on the back of the papers, as in Fig. 1, correspond with 132 designs in the "Paradise of Childhood."

The usual material for paper cutting consists of plain squares of white or colored papers, which after being properly folded are marked by the teacher so as to guide the pupils in cutting. This paper must be cut with the greatest accuracy.

To save the time of the teachers, we manufacture our Ruled Cutting papers, which are now acknowledged to be exactly in the line of Frébel's method, because they allow the child to accurately draw from dictation his own patterns for cutting.

Fig. 1 shows one of the triangular surfaces which is on the outside of the

In the following list, Assortment A contains the six standards (R.—O.—Y.—G. B.—V.) with one tint and one shade of each and grays.

Assortment B, contains the intermediate hues (O.R.—R.O.—Y.O.—O.Y.—G.Y.—Y.G.—B.G.—G.B.—V.B.—B.V.—R.V.—V.R.) with one tint and one shade of each:—

			Price.	Postage.
200	100 Squares, 5 x 5, ruled, white paper,	. . . . .	\$0.40	.05
201	100 " 5 x 5, ruled, engine colored, assorted colors,	. . . . .	.45	.05
202 x	100 " 5 x 5, ruled, coated, assortment A,	. . . . .	.50	.05
202 z	100 " 5 x 5, ruled, coated, assortment B,	. . . . .	.50	.05
203	100 " 5 x 5, unruled, white paper,	. . . . .	.10	.05
204	100 " 5 x 5, unruled, engine colored, assorted colors,	. . . . .	.15	.05
205 x	100 " 5 x 5, unruled, coated, assortment A,	. . . . .	.30	.05
205 z	100 " 5 x 5, unruled, coated, assortment B,	. . . . .	.30	.05
206	100 " 4 x 4, ruled, white paper,	. . . . .	.40	.04
207	100 " 4 x 4, ruled, engine colored, assorted colors,	. . . . .	.45	.04
208 x	100 " 4 x 4, ruled, coated, assortment A,	. . . . .	.50	.04
208 z	100 " 4 x 4, ruled, coated, assortment B,	. . . . .	.50	.04
209	100 " 4 x 4, unruled, white paper,	. . . . .	.08	.04
210	100 " 4 x 4, unruled, engine colored, assorted colors,	. . . . .	.12	.04
211 x	100 " 4 x 4, unruled, coated, assortment A,	. . . . .	.20	.04
211 z	100 " 4 x 4, unruled, coated, assortment B,	. . . . .	.20	.04
211 R	100 " 4 x 4, unruled, coated, Red, tints and shades,	. . . . .	.20	.04
211 O	100 " 4 x 4, unruled, coated, Orange, tints and shades,	. . . . .	.20	.04
211 Y	100 " 4 x 4, unruled, coated, Yellow, tints and shades,	. . . . .	.20	.04
211 G	100 " 4 x 4, unruled, coated, Green, tints and shades,	. . . . .	.20	.04
211 B	100 " 4 x 4, unruled, coated, Blue, tints and shades,	. . . . .	.20	.04
211 V	100 " 4 x 4, unruled, coated, Violet, tints and shades,	. . . . .	.20	.04
212 x	100 Equi. Tri., 4 x 4, coated, assortment A,	. . . . .	.25	.03
212 z	100 " 4 x 4, coated, assortment B,	. . . . .	.25	.03
212 R	100 " 4 x 4, coated, Red, tints and shades,	. . . . .	.25	.03
212 O	100 " 4 x 4, coated, Orange, tints and shades,	. . . . .	.25	.03
212 Y	100 " 4 x 4, coated, Yellow, tints and shades,	. . . . .	.25	.03
212 G	100 " 4 x 4, coated, Green, tints and shades,	. . . . .	.25	.03
212 B	100 " 4 x 4, coated, Blue, tints and shades,	. . . . .	.25	.03
212 V	100 " 4 x 4, coated, Violet, tints and shades,	. . . . .	.25	.03
213 x	100 Circles, 4 in. diam., coated, assortment A,	. . . . .	.25	.03
213 z	100 " 4 in. diam., coated, assortment B,	. . . . .	.25	.03
213 R	100 " 4 in. diam., coated, Red, tints and shades,	. . . . .	.25	.03
213 O	100 " 4 in. diam., coated, Orange, tints and shades,	. . . . .	.25	.03
213 Y	100 " 4 in. diam., coated, Yellow, tints and shades,	. . . . .	.25	.03
213 G	100 " 4 in. diam., coated, Green, tints and shades,	. . . . .	.25	.03
213 B	100 " 4 in. diam., coated, Blue, tints and shades,	. . . . .	.25	.03
213 V	100 " 4 in. diam., coated, Violet, tints and shades,	. . . . .	.25	.03

The packages of ENGINE COLORED PAPERS, ASSORTED COLORS, should be ordered from the new sample book, which represents a line capable of beautiful combinations and one that is better for color teaching than any assortment of engine colors previously offered the public. These are the numbers:—

1 A—2 A—3 A—4 A—5 A—6 A.

1—2—3—4—5—6.

1 B—2 B—3 B—4 B—5 B—6 B.

7—8—9—10—11—12—13—14—15—16.

FOR RULED MOUNTING SHEETS see numbers 79 and 80, following Parquetry.

We have frequent calls for full sheets of colored paper, twenty by twenty-four inches, by mail, but we cannot forward them without injury, except in pasteboard cylinders.

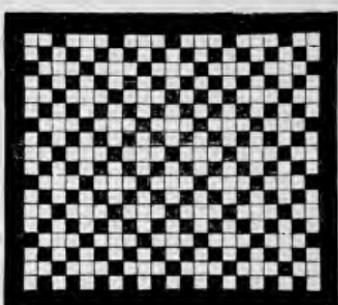
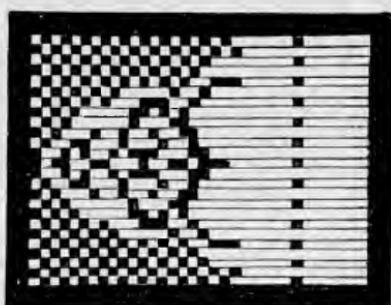
The following are the prices per sheet for the paper, including postage, and any number of sheets will be at the same rate:—

	Price and Postage.
220 One sheet coated paper, 20 x 24, any color in sample book,	\$0.04
221 One sheet silver paper, 20 x 24, . . . . .	.08
222 One sheet gilt paper, 20 x 24, . . . . .	.10
223 One sheet engine col'd paper, any selection from sample book, . . . . .	.03

To each of these amounts five cents must be added for the cylinder, no matter how small the order.

Whoever orders papers should use our sample books and carefully read those pages in this catalogue which speak of The Bradley Color Outfit.

FOURTEENTH GIFT OR OCCUPATION. WEAVING.



This occupation consists of weaving together strips of colored paper so as to construct symmetrical and beautiful figures or patterns. The foundation of each design is a sheet of paper slited into strips, which are joined by a margin at each end, this sheet of paper being called a mat. Into this mat are woven narrow strips of paper of a different color. The weaving is done with the aid of a flat steel needle, having a spring catch to receive and hold one end of the strip to be woven into the mat. By passing the needle over and under the strips of the mat the strip attached to the needle is readily and quickly woven into the pattern. The greatest variety of designs are produced, and the inventive powers of teacher and pupils constantly increase the number.

The sheet of strips to be woven into the mat is called a fringe, because the loose strips composing it were formerly joined at one end. Now, however, for convenience in handling, the strips are joined at both ends and are really mats, except that the border of the fringe is not as wide as that of the mat. Before using the fringe it is desirable to separate the strips from each other with scissors, as fast as they are wanted, and not undertake to tear them apart.

The child should at first be directed in the selection of colors, and invention in design may sometimes be permitted after he has become familiar with the principles of the designs already worked out.

Each of the following numbers indicates one package containing twelve mats and twelve fringes.

MATS 7 X 7 INCHES, SLITS $\frac{1}{2}$ INCH WIDE.

- 999 R** Red, with tints and shades.
- 999 O** Orange, with tints and shades.
- 999 Y** Yellow, with tints and shades.
- 999 G** Green, with tints and shades.
- 999 B** Blue, with tints and shades.
- 999 V** Violet, with tints and shades.
- 1000** R.—O.—Y.—G.—B.—V., with tints and shades and grays.
- 1001 x** O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.
- 1002 x** G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.
- 1003 x** V.B.—B.V.—R.V.—V.R., with tints and shades and grays.
- 1005** Black and white.
- 1006** Grays.

MATS 7 X 7 INCHES, SLITS $\frac{1}{2}$ INCH WIDE.

- 1009 R** Red, with tints and shades.
- 1009 O** Orange, with tints and shades.
- 1009 Y** Yellow, with tints and shades.
- 1009 G** Green, with tints and shades.
- 1009 B** Blue, with tints and shades.
- 1009 V** Violet, with tints and shades.
- 1010** R.—O.—G.—Y.—B.—V., with tints and shades and grays.
- 1011 x** O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.
- 1012 x** G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.
- 1013 x** V.B.—B.V.—R.V.—V.R., with tints and shades and grays.
- 1015** Black and white.
- 1016** Grays.

MATS 7 X 7 INCHES, SLITS $\frac{1}{2}$ INCH WIDE.

- 1019 R** Red, with tints and shades.
- 1019 O** Orange, with tints and shades.
- 1019 Y** Yellow, with tints and shades.
- 1019 G** Green, with tints and shades.
- 1019 B** Blue, with tints and shades.
- 1019 V** Violet, with tints and shades.
- 1020** R.—O.—Y.—G.—B.—V., with tints and shades and grays.
- 1021 x** O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.
- 1022 x** G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.
- 1023 x** V.B.—B.V.—R.V.—V.R., with tints and shades and grays.
- 1025** Black and white.
- 1026** Grays.

MATS 7 X 7 INCHES, SLITS $\frac{1}{2}$ AND $\frac{1}{4}$ INCH ALTERNATING.

- 1029 R** Red, with tints and shades.
- 1029 O** Orange, with tints and shades.
- 1029 Y** Yellow, with tints and shades.
- 1029 G** Green, with tints and shades.
- 1029 B** Blue, with tints and shades.
- 1029 V** Violet, with tints and shades.
- 1030** R.—O.—Y.—G.—B.—V., with tints and shades and grays.
- 1031 x** O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.
- 1032 x** G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.

1033 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.

1035 Black and white.

1036 Grays.

MATS 7 X 5 INCHES, SLITS $\frac{1}{2}$ INCH WIDE.

1039 R Red, with tints and shades.

1039 O Orange, with tints and shades.

1039 Y Yellow, with tints and shades.

1039 G Green, with tints and shades.

1039 B Blue, with tints and shades.

1039 V Violet, with tints and shades.

1040 R.—O.—Y.—G.—B.—V., with tints and shades and grays.

1041 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.

1042 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.

1043 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.

1045 Black and white.

1046 Grays.

MATS 7 X 5 INCHES, SLITS $\frac{1}{4}$ INCH WIDE.

1049 R Red, with tints and shades.

1049 O Orange, with tints and shades.

1049 Y Yellow, with tints and shades.

1049 G Green, with tints and shades.

1049 B Blue, with tints and shades.

1049 V Violet, with tints and shades.

1050 R.—O.—G.—Y.—B.—V., with tints and shades and grays.

1051 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.

1052 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.

1053 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.

1055 Black and white.

1056 Grays.

MATS 7 X 5 INCHES, SLITS 1-6 INCH WIDE.

1059 R Red, with tints and shades.

1059 O Orange, with tints and shades.

1059 Y Yellow, with tints and shades.

1059 G Green, with tints and shades.

1059 B Blue, with tints and shades.

1059 V Violet, with tints and shades.

1060 R.—O.—Y.—G.—B.—V., with tints and shades and grays.

1061 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.

1062 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.

1063 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.

1065 Black and white.

1066 Grays.

MATS 7 X 5 INCHES, SLITS $\frac{1}{2}$ INCH WIDE.

1069 R Red, with tints and shades.

1069 O Orange, with tints and shades.

1069 Y Yellow, with tints and shades.

1069 G Green, with tints and shades.

1069 B Blue, with tints and shades.

1069 V Violet, with tints and shades.

1070 R.—O.—Y.—G.—B.—V., with tints and shades and grays.

1071 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.

1072 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.

1073 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.

1075 Black and white.

1076 Grays.

MATS 7 X 5 INCHES, SLITS $\frac{1}{2}$ AND $\frac{1}{4}$ INCHES ALTERNATING

1079 R Red, with tints and shades.

1079 O Orange, with tints and shades.

1079 Y Yellow, with tints and shades.

1079 G Green, with tints and shades.

1079 B Blue, with tints and shades.

1079 V Violet, with tints and shades.

1080 R.—O.—Y.—G.—B.—V., with tints and shades and grays.

1081 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.

1082 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.

1083 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.

1085 Black and white.

1086 Grays.

MATS 7 X 5 INCHES, SLITS $\frac{1}{2}$ AND 1-6 INCHES ALTERNATING.

1089 R Red, with tints and shades.

1089 O Orange, with tints and shades.

1089 Y Yellow, with tints and shades.

1089 G Green, with tints and shades.

1089 B Blue, with tints and shades.

1089 V Violet, with tints and shades.

1090 R.—O.—G.—Y.—B.—V., with tints and shades and grays.

1091 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.

1092 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.

1093 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.

1095 Black and white.

1096 Grays.

MATS $4\frac{3}{4}$ X $4\frac{3}{4}$ INCHES, SLITS $\frac{1}{2}$ INCH WIDE.

1099 R Red, with tints and shades.

1099 O Orange, with tints and shades.

1099 Y Yellow, with tints and shades.

1099 G Green, with tints and shades.

1099 B Blue, with tints and shades.

1099 V Violet, with tints and shades.

1100 R.—O.—Y.—G.—B.—V., with tints and shades and grays.

1101 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.

1102 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.

1103 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.

1105 Black and white.

1106 Grays.

MATS $4\frac{3}{4}$ X $4\frac{3}{4}$ INCHES, SLITS $\frac{1}{4}$ INCH WIDE.

1109 R Red, with tints and shades.

1109 O Orange, with tints and shades.

1109 Y Yellow, with tints and shades.

1109 G Green, with tints and shades.

1109 B Blue, with tints and shades.

1109 V Violet, with tints and shades.

1110 R.—O.—Y.—G.—B.—V., with tints and shades and grays.

1111 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.

- 1112 x** G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.
1113 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.
1115 Black and white.
1116 Grays.

MATS $4\frac{3}{4}$ x $4\frac{3}{4}$ INCHES, SLITS 1-6 INCH WIDE.

- 1119 R** Red, with tints and shades.
1119 O Orange, with tints and shades.
1119 Y Yellow, with tints and shades.
1119 G Green, with tints and shades.
1119 B Blue, with tints and shades.
1119 V Violet, with tints and shades.
1120 R.—O.—Y.—G.—B.—V., with tints and shades and grays.
1121 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.
1122 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.
1123 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.
1125 Black and white.
1126 Grays.

MATS $4\frac{3}{4}$ x $4\frac{3}{4}$ INCHES, SLITS $\frac{1}{8}$ INCH WIDE.

- 1129 R** Red, with tints and shades.
1129 O Orange, with tints and shades.
1129 Y Yellow, with tints and shades.
1129 G Green, with tints and shades.
1129 B Blue, with tints and shades.
1129 V Violet, with tints and shades.
1130 R.—O.—G.—Y.—B.—V., with tints and shades and grays.
1131 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.
1132 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.
1133 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.
1135 Black and white.
1136 Grays.

MATS $4\frac{3}{4}$ x $4\frac{3}{4}$ INCHES, SLITS $\frac{1}{8}$ AND $\frac{1}{4}$ INCH ALTERNATING.

- 1139 R** Red, with tints and shades.
1139 O Orange, with tints and shades.
1139 Y Yellow, with tints and shades.
1139 G Green, with tints and shades.
1139 B Blue, with tints and shades.
1139 V Violet, with tints and shades.
1140 R.—O.—Y.—G.—B.—V., with tints and shades and grays.
1141 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.
1142 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.
1143 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.
1145 Black and white
1146 Grays.

MRS. HAILMANN'S GRADED MATS.

All these are, 4x4 inches with cut surface 3x3 inches, and are cut in both engine colored and coated papers.

ENGINE COLORED PAPERS, ASSORTED COLORS AND TINTS.

Each package of the Engine Colored Papers contains 50 mats and corresponding fringes.

- | | |
|--------------------------------------|---------------------------------------|
| 1200 Mats with 5 strips each. | 1203 Mats with 8 strips each. |
| 1201 Mats with 6 strips each. | 1204 Mats with 9 strips each. |
| 1202 Mats with 7 strips each. | 1205 Mats with 10 strips each. |

EDUCATIONAL COATED PAPERS.

Each package of the coated papers contains twenty-five mats and corresponding fringes, assorted in six standard spectrum colors, with one tint and shade of each and neutrals and grays and black and white.

- 1210** Mats with 5 strips each.
- 1211** Mats with 6 strips each.
- 1212** Mats with 7 strips each.
- 1213** Mats with 8 strips each.
- 1214** Mats with 9 strips each.
- 1215** Mats with 10 strips each.

In addition to No. 1215, as above, the 10-strip mats are cut in the spectrum hues intermediate between the standards, with tints and shades, etc., as follows:—

- 1216** Mats with 10 strips each of intermediate hues, O. R. - R. O. - Y. O. O. Y. - G. Y. - Y. G. - B. G. - G. B. - V. B. - B. V. - R. V. - V. R., with one tint and one shade each and neutrals and black and white.

Mrs. Hailmann's Graded mats cannot be furnished otherwise than as described, either in style of cutting or assortment of colors.

If mats in the other sizes are wanted in different cuttings or assortment of colors, they will be furnished as follows, but time must be allowed for their preparation:—

Twelve packages of one kind at AN ADVANCE OF ONE-QUARTER THE PRICE.

Six or more packages, but less than twelve, at AN ADVANCE OF ONE-HALF THE PRICE.

Less than six packages, DOUBLE THE CATALOGUE PRICE..

In ordering any special lots be sure and state just what is wanted in mats and what in fringes, and if both mats and fringes are wanted say MATS AND FRINGES.

For example: We have frequently received orders for twelve mats of a given assortment, when both mats and fringes are wanted. In lots cut to order we furnish twenty-four mats at the same price as twelve mats and twelve fringes.

BE SURE YOU SAY JUST EXACTLY WHAT YOU MEAN VERY DEFINITELY, AND WE WILL TRY TO DO OUR PART FAITHFULLY.

BRADLEY'S PATENT WEAVING NEEDLE.



FIG. 1.

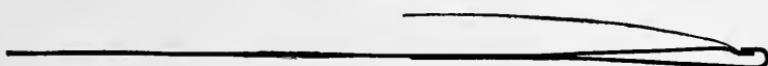


FIG. 2.



Fig. 3.

From the earliest split stick used by Fröbel the weaving needle has been subject to many improvements, and those needles which we offer the public are the result of long experience in using weaving materials and much experimenting in their manufacture. Figure 1 gives a general view of the operative part of the needle, Figure 2 shows how the paper is inserted and Figure 3 the threaded needle ready for use.

The Bradley patent needle is radically different from all others and is believed to combine more good points and to overcome more objectionable features than any other ever made. It is more easily threaded than any other and the strip of paper can never pull out in use. With a narrow needle superior strength and durability are secured. This needle requires only an honest trial long enough to become accustomed to handling it, to win for itself universal approval. The child can be taught to use this style as easily as any other, and when once its use has been learned there is no disputing its superior merits over other needles.

PRICES OF MATS, FRINGES AND NEEDLES.

To avoid needless repetition the prices of the different mats and fringes mentioned on the preceding pages and those of the needles and two boxes of home-weaving material are grouped together as follows:—

	Price.	Postage.
Each package of 12 mats and fringes, 7x7 and 7x5,	\$0.15	\$.03
Each package 4 $\frac{3}{4}$ x4 $\frac{3}{4}$, . . . . .	.10	.03
Each package Mrs. Hailmann's graded mats in engine colored papers, (50 each), . . . . .	.25	.04
Each package Mrs. Hailmann's graded mats in educational coated papers, (25 each), . . . . .	.15	.02

For Gold mats or fringes, 7x7, the charge will be one cent per sheet, extra.

For Gold mats or fringes, 7x5, the charge will be one-half cent per sheet, extra.

For Silver mats or fringes, 7x7, the charge will be one-half cent per sheet, extra, and for 7x5, one-quarter cent per sheet, extra.

	Price.	Postage.
388 12 weaving portfolios, 7 $\frac{1}{2}$ x 10, for the 7 x 7 mats	\$0.40	\$.25
389 12 weaving portfolios, 5 x 7, for the 4 $\frac{3}{4}$ x 4 $\frac{3}{4}$ mats . . . . .	.30	.15
390 A box containing 24 mats and 24 fringes, 7x5, assorted colors, $\frac{1}{2}$ inch slits, and patent weaving needle,	\$0.35	\$.05
390a A box containing 24 mats and 24 fringes, 7x5, assorted colors, 1-6 inch slits, and patent weaving needle, . . . . .	.35	.05
391 12 Steel weaving needles plain, waxed for putting in last strip, . . . . .	.20	.01
392 1 Steel needle, as above, . . . . .	.02	.01
393 12 Bradley's patent weaving needles, . . . . .	.50	.02
394 1 " " " " "	.05	.01
395 12 Ball's weaving needles, . . . . .	.60	.03
396 1 " " " " "	.05	.01
394a 12 Bradley's improved weaving needles, . . . . .	.45	.02
394b 1 " " " " "	.04	.01

The Bradley improved weaving needle is substantially made and proves itself an excellent needle for the price.

BOOK MARK STRIPS.

ALL PACKAGES CONTAIN 100 STRIPS, COATED PAPER, 20 INCHES LONG.

	Price.	Postage.
397 Assorted colors, $\frac{1}{2}$ inch wide,	\$0.10	\$.02
397a Standard colors and their shades and tints, $\frac{1}{2}$ inch wide, . . . . .	.10	.02
397b Standard colors and gray, $\frac{1}{2}$ inch wide, . . . . .	.10	.02
398 Assorted colors, 1-6 inch wide, . . . . .	.10	.02
398a Standard colors and their shades and tints, 1-6 inch wide, . . . . .	.10	.02

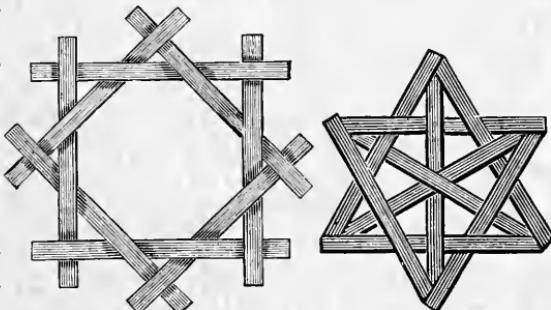
	Price.	Postage
398b Standard colors and gray, 1-6 inch wide,	\$0.10	\$.02
399 Assorted colors, $\frac{1}{4}$ inch wide, . . . . .	.15	.03
399a Standard colors, with their shades and tints, $\frac{1}{4}$ inch wide, . . . . .	.15	.03
399b Standard colors and gray, $\frac{1}{4}$ inch wide, . . . . .	.15	.03
400 Assorted colors, $\frac{3}{8}$ inch wide, . . . . .	.15	.03
400a Standard colors, with their shades and tints, $\frac{3}{8}$ inch wide, . . . . .	.15	.03
400b Standard colors and gray, $\frac{3}{8}$ inch wide, . . . . .	.15	.03
401 Assorted colors, $\frac{1}{2}$ inch wide, . . . . .	.20	.03
401a Standard colors, with their shades and tints, $\frac{1}{2}$ inch wide, . . . . .	.20	.03
401b Standard colors and gray, $\frac{1}{2}$ inch wide, . . . . .	.20	.03

We cannot furnish small lots of these strips in special colors, because of the waste of time and paper, which such cutting would necessitate. But we will cut to order any assortment of colors in the half-inch strips which will amount to forty-six packages in all, at regular prices, or twenty-three and one-half packages at an advance of one quarter of the usual charge. Special orders outside these limits we must emphatically decline to fill, because it is impossible to do so at any reasonable rate.

FIFTEENTH GIFT.

PLAITING THE DISCONNECTED SLATS.

We offer an elegant hard-wood and hand-cut slat of uniform width and thickness, either plain or colored. The quality of these goods is superior to anything to be found elsewhere and the prices are exceptionally low. The colored slats command special attention wherever known. These are not like the ordinary soft wood colored splints formerly in use for fancy work.



	Price.	Postage.
410 50 slats, 10 inches long, hard wood, plain,	\$0.10	\$.03
411 100 slats, 10 inches long, hard wood, plain, . . . . .	.15	.05
412 50 slats, 10 inches long, hard wood, in six colors, . . . . .	.15	.03
413 100 slats, 10 inches long, hard wood in six colors, . . . . .	.25	.05

Nearly 50 designs for this gift in "Paradise of Childhood."

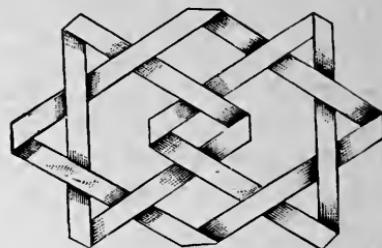
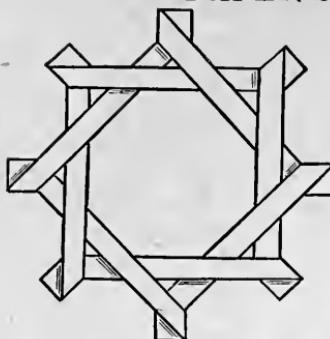
SIXTEENTH GIFT.

THE GONIGRAPH, OR JOINTED SLATS.

As this gift is to represent various lines, angles and figures, and not to be used as a measure, the narrow, light links, joined in four sets, are much more desirable than the large, heavy-jointed metric measure, but we offer both.

	Price.	Postage.
420 4 sets of links; 1 each of 4 links, 6 links, 8 links, 16 links, each link 1 decimeter long. The whole in a box,	\$0.40	\$.04
421 1 set of 16 links, . . . . .	.20	.02
422 1 set of 8 links, . . . . .	.10	.01
423 1 jointed metric measure, graduated, . . . . .	.20	.02

SEVENTEENTH GIFT. PAPER STRIPS FOR LACING.



Paper strips of various colors, folded lengthwise, are used to represent a variety of fanciful forms, by bending, twisting, and interlacing them, according to certain rules. We furnish strips twenty inches long, half an inch, and an inch wide, of various assorted colors. These strips are very difficult to keep in perfect condition unless put up in packages when cut, and hence we cannot undertake to furnish them in small quantities, except in packages of assorted colors as described below.

ALL PACKAGES CONTAIN 100 STRIPS ENGINE COLORED PAPER, 20 INCHES LONG.

		Price.	Postage.
430	Assorted colors, $\frac{1}{2}$ inch wide,	. . . . .	\$0.15
430a	Six colors, $\frac{1}{2}$ inch wide,	. . . . .	.15
431	Assorted colors, 1 inch wide,	. . . . .	.20
431a	Six colors, 1 inch wide,	. . . . .	.20

ALL PACKAGES CONTAIN 100 STRIPS COATED PAPER, 20 INCHES LONG.

		Price.	Postage.
432	Assorted colors, $\frac{1}{2}$ inch wide,	. . . . .	\$0.20
432a	Standard colors and their shades, tints and gray, $\frac{1}{2}$ inch wide,	. . . . .	.20
432b	Standard colors and gray, $\frac{1}{2}$ inch wide,	. . . . .	.20
433	Assorted colors, 1 inch wide,	. . . . .	.25
433a	Standard colors, and their shades, tints and gray, 1 inch wide,	. . . . .	.25
433b	Standard colors and gray, 1 inch wide,	. . . . .	.25

For other widths see Book Mark Strips, Fourteenth Gift, and for diagrams consult "Paradise of Childhood."

EIGHTEENTH GIFT OR OCCUPATION. FOLDING PAPER.

The material for paper-folding consists of square, rectangular, triangular and circular pieces, with which variously shaped objects are formed.

		Price.	Postage.
440	100 Squares, 4 x 4, engine colored, assorted colors,	. . . . .	\$0.12
441	100 Oblongs, 4 x 2, engine colored, assorted colors,	. . . . .	.10
442	100 Equilateral Triangles, 4 inches on side, engine colored, assorted colors,	. . . . .	.20
443	100 Circles, 4 inches diameter, engine colored, ast'd colors,	. . . . .	.20
444	100 Equilateral Triangles, 4 inches on side, white paper,	. . . . .	.15
445	100 Circles, 4 inches diameter, white paper,	. . . . .	.20

In addition to the above list of material we will take orders for packages to be made up in any of our colors, with not less than thirty pieces of any one color

in each, at regular prices. The description of the coated papers, four inches square, which we carry will be found under Cutting Paper in the Thirteenth Gift. For the diagrams pertaining to folding paper see "Paradise of Childhood."

PAPER FOLDERS.

The knives listed under the Twentieth Gift for Clay Modeling are perfect little paper-folders.

NINETEENTH GIFT OR OCCUPATION.

PEAS OR CORK WORK.

Skeleton forms of objects are made with pointed sticks and soaked peas, or with cork cubes and pointed wires. The sticks are round and very thin, but are to be cut to lengths and pointed by the teacher or pupil. The pointed wires and cork cubes are more durable and convenient, and generally preferred.

	Price.	Postage.
449 1000 sticks, 5 inches long,	\$0.20	\$0.07
450 A box containing 100 pointed wires of various lengths, as sorted, 1 inch, 1½ inch, 2 inch, 2½ inch, 3 inch, 3½ inch, . . .	.10	.03
451 A box containing 1000 wires, assorted as above, . . . . .	.50	.09
452 A package of 100 cork cubes, . . . . .	.25	.01

The sticks used in this gift are also put up in packages of one thousand in each length, from one to five inches, at the same price as the plain square sticks, which are listed under the Eighth Gift. See diagrams in "Paradise of Childhood."

TWENTIETH GIFT OR OCCUPATION.

WOODEN MODELING KNIVES AND BOARDS.

	Price.	Postage.
454 1 dozen knives,	\$0.25	\$0.02
455 1 dozen boards,	1.50	.75

BRICKS OF DRY CLAY.

	Price.
456 1 brick of 5 pounds,	*\$.25

The forms for models are supplied in "Paradise of Childhood."

PORTRAITS OF FRÖEBEL.

We publish the portrait of Fröbel in two sizes, the largest being three-quarters life-size, and the other three-eighths. They are Artotypes, printed on heavy paper from crayon drawings, no pains being spared to secure a thoroughly life-like and characteristic picture of the great German instructor. While all the profiles and medallions of him which have been preserved indicate the best qualities of mind and heart, the portraits of his time make him out but little better than a fool, a fact that even the children of to-day are quick to recognize whenever they chance to see those pictures. But the portraits which bear our imprint bring out prominently that intellectual power which is now universally accorded to Fröbel, and which is so apparent in the medallions and profiles.

The largest portrait when suitably framed makes a very desirable embellishment for any home, kindergarten or school-room.

Both the pictures contain a facsimile of Fröbel's autograph and the smaller one is an excellent ornament for the school-room or the home, either with or without a frame.

	Price, by mail.
Large size,	\$1.50
Medium size, . . . . .	.75

MRS. HAILMANN'S LENTILS.

The students of the kindergarten system in this country find it a progressive science, capable of new interpretations from year to year. Consequently they are continually commending the use of new material which experience has shown to be desirable, but which is not always listed under any particular gift. Mrs. Hailmann's lentils are naturally included among this miscellaneous material. The popularity of these quarter-inch round and square wooden tablets has led us to offer a much greater variety than we have hitherto manufactured.

ALL PACKAGES CONTAIN 1000 OF THE $\frac{1}{4}$ INCH LENTILS.

		Price.	Postage.
458	Square and round forms, assorted, in the six colors,	\$0.25	\$.02
458a	" " " " light wood color, . . . . .	.25	.02
458b	" " " " dark wood color, . . . . .	.25	.02
458d	Circles in the six colors, . . . . .	.25	.02

GUMMED PAPER DOTS.

For making permanent the results of exercises with the lentils we have added round gummed paper dots, of the same size as the lentils.

		Price.	Postage.
459a	1000 Circles, in envelopes, six colors, . . . . .	.15	.02

PAPERS, STRAWS AND BEADS FOR STRINGING.

PAPERS.

Papers for stringing may be selected from the various assortments of colors and forms under the Parquetry Papers, found on pages 9, 10, 11, and 12.

PLAIN STRAWS.

		Price.	Postage.
462	100 straws, 10 inches long,	\$0.10	\$.05
463	1000 straws, $\frac{3}{4}$ inches long, in a box, . . . . .	.25	.05
463a	" " 1 " " " " " . . . . .	.30	.06

COLORED STRAWS.

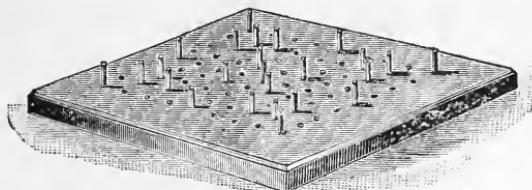
		Price.	Postage.
462e	100 straws, 10 inches long, in six colors,	\$0.15	\$.05
463e	1000 straws, $\frac{3}{4}$ inches long, in a box, . . . . .	.35	.05
463d	1000 straws, 1 inch long, in a box, . . . . .	.45	.06

EACH BOX OF THE $\frac{1}{2}$ INCH BEADS CONTAINS THE SIX COLORS.

		Price.	Postage.
464	1 gross wooden balls,	\$0.10	\$.05
465	1000 wooden balls,	2.00	.30
479	1 gross Mrs. Hailmann's beads, balls, cubes and cylinders, . . . . .	.40	.05
476a	2000 " " " " "	2.00	.40
470b	3 dozen " " " " " . . . . .	.12	.02
470e	1 gross " uncolored " " " " " . . . . .	.40	.70
470f	1,000 " " " " "	2.00	.30

DIXON'S AMERICAN GRAPHITE SKETCHING CRAYON 341

MRS. PUTNAM'S BUSY WORK TILES.



An occupation for the youngest children, in the home, the kindergarten and the primary school.

Each tile is a finely finished board, six inches square, with holes drilled for pegs of various colors.

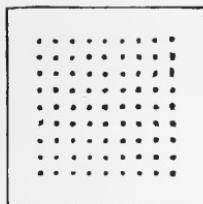


FIG. 1.

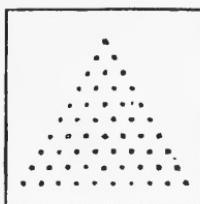


FIG. 2.

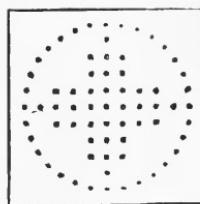


FIG. 3.

No. 1 has the holes arranged in half-inch squares, as seen in diagram, Figure 1.
No. 2 has the holes in a triangle, as seen in Figure 2.

No. 3 is represented in Figure 3.

The pegging of lines, angles and geometrical forms, the arranging of the colors in the various combinations, and the inventions of new forms and combinations are not only a diversion to the little ones but afford them valuable instruction both in the kindergarten and at home.

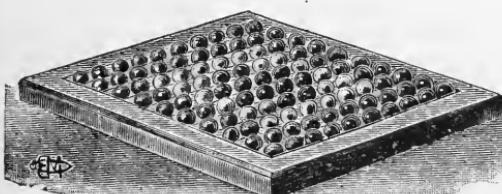
As put up for kindergarten and school use, the boards are without pegs, and the pegs are in boxes of one thousand each, assorted in six colors. In ordering it is very desirable to mention that Mrs. Putnam's Busy Work Tiles are wanted, so as to avoid possible confusion with other inferior grades of boards. For private use one board with a good assortment of pegs is put in a paper box, making the outfit complete.

	Price.	Postage.
474 1 tile, without pegs,	\$0.25	\$0.05
475 1000 pegs, six colors in a box, . . . . .	.20	.04
476 1 tile, in box with pegs, . . . . .	.35	.08

476A. Six Tiles in one box with six boxes Pegs, \$2.00.

In ordering, say which pattern is wanted, whether No. 1, No. 2, or No. 3.

THE BRADLEY BEAD TILE.



This illustration shows the Bead Tile for use with Mrs. Hailmann's Beads. It contains one hundred cups for receiving the half-inch spheres, No. 464, and is very effective for teaching number and form.

	Price.	Postage.
472 1 tile, without beads	\$0.25	\$0.05



[PATENTED.]

In our PATENTED, MARGINAL, INLAID ENAMEL TABLE the lines consist of deep channels sawed in the wood so that the surface is divided accurately into inch squares which are then carefully filled with black enamel, which proves as durable as the wood itself. The surface is given a fine polish and may be refinished whenever occasion requires, without disturbing the lines.

Each table is supplied with our improved folding brace, attached to the hinged leg, so that it can instantly be folded into a space about three inches thick, including top and legs, and as easily set up again. When it is set up the legs are absolutely rigid, being firmly braced without the strain on the hinges found in all other folding devices which make the legs rigid.

In these tables the lines all stop an inch from the edge and are terminated by a marginal line inside of a beaded moulding. Many kindergartners prefer this definite, plain margin from which to count and work, and also consider the beaded moulding a valuable improvement, because it serves as a rest for the box cover when closing an exercise with the Third, Fourth, Fifth and Sixth Gifts.

These tables are made in two widths and the height is twenty-one inches, but the legs can be shortened one or two inches without injury.

	Price.
No. 1 table, 4 feet long, 16 inches wide,	*\$8.00
No. 2 " 7 " " 16 " "	*10.00
No. 2½ " 8 " " 16 " "	*11.00
No. 3 " 6 " " 30 " "	*12.00

In order to meet the demand for a cheaper table than those listed above we offer the following line. These tables are accurately inlaid with enamel, but have no marginal bead.

	Price.
No. 10 tables, 8 feet long, 30 inches wide,	*\$10.00
No. 11 " 6 " " 30 " "	*8.00
No. 12 " 8 " " 16 " "	*7.00
No. 13 " 6 " " 16 " "	*6.00
No. 14 " 3 " " 16 " "	*4.50
No. 15 " 30 in. " 30 " "	*3.50

All of the above tables have folding legs and are twenty-one inches high, except No. 15. The latter has four turned legs which screw into the top, on the principle used in adjusting piano legs, and is twenty-two inches high, although any of the tables will be made a little lower than their regular height, when desired.

Besides these styles we make a line of

WHITEWOOD TABLES.

Finished in oil and shellac, with squares plainly marked with a machine.

Whitewood Tables, 6 feet long, 16 inches wide, with legs to fold under, to accommodate four pupils each. No braces. Price \$5.00
Special lengths made to order.

SQUARED ENAMELED CLOTH.

A beautiful, flat, varnished cloth, accurately ruled and durable, with black background and red lines, forty-five inches wide. It is readily cleaned when soiled, and can be made to protect almost any kind of school furniture. Only about three yards can be sent through the mails in one piece, so that if a larger quantity is wanted by mail the order must include directions for cutting.

Price, per yard, \$1.00; postage, \$0.30

WHITE ENAMEL CLOTH.

Plain per yard, \$0.25

CHAIRS.

11 or 12 inches high, style A in cut per dozen, \$6.00

IMPROVED FOLDING CHAIRS.

This chair is made expressly for us from special designs, being so constructed that there is no danger that it will tip forward and give the child a fall, as often happens with some folding chairs. It can be handled very readily and as the cost is but little greater than that of the ordinary school chair, many kindergartners prefer it. Like the tables, it can be packed away in small compass, at a moment's notice. These chairs are well made and handsomely finished, the height of the seat being twelve inches from the floor.

Price, per dozen, *\$7.50

KINDERGARTEN TEACHERS' CHAIRS.

One half size, cane seat each, \$1.25

KINDERGARTEN TEACHERS' TABLES.

Round, 24 inches diameter, three legs, no drawer " 3.00

ROUND TABLE.

36 inches diameter, four legs, one drawer. Very firm and durable " 4.50

KINDERGARTEN HOME OCCUPATIONS.

This series of Kindergarten Occupations for the Home is entirely new and will be found to excel the collection which we formerly sold under the same name, although offered at a lower price. Each set is put up in a neat box with a handsome lithographed label. The series is as follows:—

Price. Postage.

WEAVING.—An assortment of paper mats and strips for weaving, with needle and directions \$0.50 \$0.14

CARD SEWING OR EMBROIDERY.—Design cards for perforating and sewing, with needle, cushion, thread and directions50 .12

PAPER CUTTING.—Colored papers and scissors, with designs and instructions for cutting and pasting50 .14

PARQUETRY PASTING.—Cut papers in various forms and colors, with designs and instructions for pasting50 .15

NATURAL HISTORY CARD SEWING.—PLANTS.—Miss Arnold's Embroidery Cards, with needle, cushion and thread50 .15

GEMS FROM THE KINDERGARTEN.—A box of weaving, stencils and embroidery design cards, with instructions *1.00

GAY'S BLACKBOARD RULING PEN.

(PATENT APPLIED FOR.)

Can be had for 50 cents, and will save a great deal of time and crooked writing on the blackboard.

FOR KINDERGARTEN TRAINING CLASSES.

We have manufactured to order mounting books for the work of kindergarten training classes for a long time, but have never listed them in the catalogue till now, because of the variety demanded by different teachers. But the line which we now offer is meeting with such general favor that we feel the kindergarten public will find it entirely satisfactory.

These books are made to fold together so that the leaves can be instantly spread across a table and the sequence of the work shown at a glance. The leaves are of heavy white cardboard hinged with cloth, so as to fold into the covers, or allow the whole number to be extended. The covers are of the best English gray muslin, and are neatly embossed, with the names of the occupation stamped in gilt from engraved dies on the front, and gray tapes for tying.

										Price.
Paper Cutting Book,	32 leaves	10 x 10	*\$1.25
Kindergarten Work Book,	36 "	10 x 10	*1.25
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We take pleasure in offering the kindergartners of America a portrait of Elizabeth Palmer Peabody, which meets the approval of her personal friends and will be welcomed by multitudes of those who did and those who did not know the distinguished and devoted American apostle of the kindergarten. The picture represents Miss Peabody seated in her arm-chair with an open book in her hands, just as she was photographed in the days when she used to lecture to the kindergarten classes in different parts of the country. It is intended as a companion piece to our portrait of Fröbel, and is made in two sizes.

										Price.
Large size portrait	\$1.00
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The Kindergarten News is a monthly magazine of fifty pages for kindergartners, primary teachers, and the mothers of little children. It costs but fifty cents a year.

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A Shetland
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In the Child's World is a work of nearly 450 pages, printed on heavy paper, with over 100 illustrations by L. J. Bridgman of Boston, and is handsomely bound. Mr. Bridgman is the artist who made the pictures for Miss Poulsson's other book, "Nursery Finger Plays," and this new contribution, while different in kind from that famous kindergarten classic, fully sustains the reputation of its gifted author. The preparation of these talks and stories was first undertaken for the kindergartens of Boston and vicinity.

The book is in no wise intended as a one-year programme, for while the subjects follow, somewhat, the course of the kindergarten year, there is often more than enough for two weeks' work with the children under a single subject. Connected with each topic is a list of books which the teacher is recommended to read, this feature being one of the most valuable of any in the book. These lists have been prepared that they may tempt the teacher to avail herself of the refreshment and inspiration which poet, philosopher, scientist and story-teller are ready to give.

While most of the stories in the book are for children of the kindergarten age, whether at home, in the kindergarten or the lower grades of the primary school, a few are intended expressly for older children.

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This book is by Emilie Poulsson, with music by Cornelia C. Roeske and illustrations by L. J. Bridgman. Wherever a kindergarten is found there is sure to be seen at least one copy of the "Finger Plays." The book is dedicated to the "Little children at home and in the kindergarten." It is founded on the theory that in all times and among all nations finger plays have been a delight of childhood and that by their judicious and early use the development of strength and flexibility in the tiny fingers may be helped so that dormant thought shall receive its first awakening call through the motions which interpret as well as illustrate the phase of life or activity presented by the words. A glance at the eighteen finger plays will show that while some of them are for the babies in the nursery others are more suitable for older children. Price, cloth and gilt, \$1.25

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BY ANNE L. PAGE.

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BY MILTON BRADLEY.

This little book is intended to be a Manual of the Theory of Color and Practical Use of Color Material in the Kindergarten. It contains the latest information to be obtained on this subject and is illustrated in a way that cannot fail to be helpful to all who are interested in color teaching.

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PARTS I. AND II.—BY ELEANOR SMITH.

Part I. of this book was composed and arranged by Miss Smith seven years ago, being published at that time with an introduction by Mrs. Alice H. Putnam. It has since met with widespread popularity, which is so well maintained as to result in a definite demand by the kindergartners of Chicago and vicinity for Part II. The new book, which has a large variety of special songs, bids fair to be as popular as the other, and the two are made up in this way:—

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Part II. contains one hundred pieces, songs and music, divided as follows: Morning Songs, 5; Trade Songs, 21; Circle Games, 14; Songs of the Seasons, 6; Color, 2; Finger Songs, 4; Gift Songs, 8; Miscellaneous, 40. There are 123 pages. Price, paper, \$1.00; cloth, \$1.25

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BY MARION MACKENZIE.—INTRODUCTION BY CONSTANCE MACKENZIE.

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The Kindergarten Blackboard is the outcome of certain experiments made by the author with Philadelphia kindergartens who asked her to start a class in blackboard sketching. They explained that they did not want instruction in object drawing, but needed practice in copying from the flat in order to illustrate in a simple way their songs and stories. Miss MacKenzie found it quite difficult to simplify such drawings as the kindergartners could make appropriate for their programmes. She therefore arranged this series on which they could base their practice outside of class lessons. The plates are 9 x 12 inches and the low price of the book brings it within the reach of every teacher.

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48 " " 5, " " 1 inch cube.
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The whole set, with directions, is nicely put up in a strong, finely-polished wooden box, with partitions.

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We offer one-inch cubes, in boxes and in bulk, plain and in the six standard colors. These cubes represent the third kindergarten gift, and can be used in a great variety of ways for the study of form and design, as well as numbers and fractions.

	Price.	Postage.
1000 assorted colored cubes, in bulk,	*\$.50	
1000 plain cubes, in bulk,	*4.50	
100 colored cubes, in paper box, . . . . .	.60	.30
100 plain cubes, in paper box, . . . . .	.50	.30
27 colored cubes, in paper box, . . . . .	.18	.10

DU SHANE'S FIGURE CARDS.

These cards have been prepared for primary-school practice in learning to read number combinations at sight. Any school-room device which helps secure rapid and correct results in mental number work is welcomed, both by teachers and the public. Thousands of people who were not properly drilled in this respect during childhood add with difficulty all their lives, and difficult adding is very liable to be incorrect. This remark is measurably true of subtraction, multiplication and division.

The set comprises thirty cards, about two and a half by three and a half inches, twenty-seven of which are printed on each side, with a different combination of digits. The other three cards contain common arithmetical signs.

The use of the set is very simple. The teacher takes a card at random, and quickly holding it before the class, asks for names of figures, their sum, difference, product or quotient, meanwhile working the same problems herself by means of the small index figures in the right-hand corner, on the side next to her, which are duplicates of the large figures on the opposite side of the card. The exercise can be made very entertaining and instructive to little ones, if carried on rapidly and with spirit.

	Price.
12 boxes,	*\$.250
Sample box, by mail, . . . . .	.25

KENDALL'S CHROMATIC NUMERAL FRAME.

No. 1, is an elegant frame with turned lower bar and improved screw and socket handle, durable in every way. There are twelve wires with twelve balls each, in the six standard colors, two wires of each color being placed together.

*Price, each, \$0.75

No. 2, is in the same style as No. 1, but with ten wires of ten balls each, and three colors, red, yellow, and blue.

*Price, each, \$0.65

No. 3, is a square bar-frame, with pin and socket handle, well made and finished. It has twelve wires and 144 balls in six colors, the same as No. 1.

*Price, each, \$0.65

No. 4, is in the same style as No. 3, and contains ten wires with 100 balls in three colors, as in No. 2.

*Price, each, \$0.50

All the numbers have heavy, well-straightened, polished, tin-plated wires, with polished balls and well-finished frames.

LARGE PEGS FOR COUNTERS.

Wide-awake primary teachers are constantly on the alert for new objects to help them in number work. We are very fortunate in being able to offer them a line of large wooden pegs, an inch and a quarter long and an eighth of an inch square, made to represent a mammoth shoe-peg. We ship these pegs in six standard colors, a thousand in each box, at a price which makes them the cheapest counters that can be bought.

Price, in paper box, \$0.15; postage, \$0.09

PRIMARY PEG BOARDS.

We manufacture a neat wooden board, about six inches square, with a hundred holes drilled in squares of half an inch, for use in arranging small colored pegs in a variety of artistic or symmetrical forms. The children can take up this occupation as a part of their class work, by imitation of blackboard diagrams or from dictation by the teacher, or individually, as busy work.

We sell round pegs, about an inch long and in six colors, to go with the boards. We also furnish the ordinary shoe-peg in colors, at a less price. This peg, being square, does not, of course, fit the holes of the board as accurately as the other, neither has it an exact standard of length. We ship the boards in bundles of one dozen each, and as it takes a hundred pegs to fill a board, two boxes, each holding a thousand pegs, are required for every bundle.

	Price.	Postage.
1 dozen boards,	*\$1.75	
1000 round pegs, in paper box,	.20	\$0.04
3000 square pegs, in paper box,	.15	.11

PARISH'S PRIMARY NUMBER TABLETS.

These tablets are printed on substantial cardboard, and in two sizes, one being four inches by two and the other five inches by two and a half. They have different combinations of blue and red dots and are intended for review purposes and to establish a clear idea of numbers and their relations in the minds of children in the lowest grades. The smaller set is used as a part of number work in the first half-year of school life and the box A contains ten tablets. The large set B consists of twelve tablets and is for use during the second half-year.

By this system of teaching pupils learn the analysis into equal parts of all numbers as high as twelve, and into any two unequal parts of all numbers as high as six, during the first half-year. The work is continued through the second half-year on the same principle, as far as twenty-seven, the limit of the fifth kindergarten gift. In this way the two unequal parts of all numbers as far as ten are learned, by the blocks, inch-cubes and other objects, and the whole subject is reviewed and fastened in the mind by the tablets.

The advantage gained by using the tablets over the ordinary method of review by oral questions is that number appeals to sight instead of hearing, and leaves a more vivid impression.

With each set will be found brief suggestions for using the tablets.

	Price.	Postage.
Set A, cardboard tablets, per envelope,	\$0.12	free
Set B, cardboard tablets, per envelope, . . . . .	.15	free

REED'S CARDBOARD OBJECTS.

The teacher needs a set or sheet for each pupil in number work, every set consisting of ten objects of a kind. She will gladly cut the different

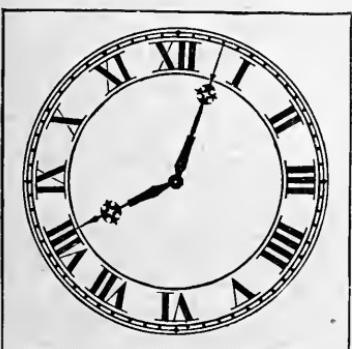


objects from the sheets herself, for the sake of the help they will afford her. Each child having received a set takes from it the particular number which he is studying and proceeds to group that number in a way to illustrate the problem under consideration. If, for instance, he wishes to demonstrate that four and two are six, he arranges his horses or caps so as to correspond to this grouping and then conforms his number problems to the picture before him.

This assortment of cardboard objects comprises thirty different sheets. These sheets are sold by the dozen and should always be ordered by the numbers given in the above cut. If, for example, a sheet of ten lamps is wanted, the number 14 must be given in the order. Price, per dozen sheets, \$0.12; postage, \$0.05

THE EDUCATIONAL CLOCK DIAL.

These dials are for teaching time and are made in two sizes, one for the teacher and the other for the children. The dial intended for the



teacher consists of a clock face, mounted on a suitable support, with regular clock hands, which can be moved independently of each other. The face or circle is about twelve inches in diameter and the mount fourteen inches square, so that the dial can be distinctly seen from any part of a large schoolroom, either in the hands of the teacher or as it hangs on the wall.

On the back of these teacher's dials is printed a series of illustrations and descriptions of the prominent methods for marking time used in different ages, showing how the earliest division of time was made

by simple observations of the sun, and also the different devices subsequently invented for the same purpose, which will serve as a text for various instructive talks by the teacher.

The child's clock dial has a face four and a half inches in diameter, on thick cardboard, with movable steel hands.

Any teacher wishing a lesson on teaching time will find it in "Helps for Ungraded Schools," which we publish and sell for 25 cents, and which contains many useful hints for the use of educational material.

		Price.	Postage.
12-inch dial, cloth-bound and varnished, each,	.	\$0.50	\$0.20
12-inch dial, on thick card, each,	.	.25	.12
4½-inch dial, on thick card, each,	.	.12	.02
4½-inch dial, per dozen,	.	1.25	.16

EDUCATIONAL TOY MONEY.



We are making this money just as we have been doing for the past twenty years. The material and denominations of our present money are the same as they have always been, the designs alone being different from those which had to be dropped because the government objected to them. This money is approved by the authorities and answers the educational purposes for which it is made, very well. It is sold in boxes having movable trays, one for each denomination, with amounts representing about \$100. Or if wanted in quantities we will quote special rates.

Price, per box, \$0.25

"BUYING AND SELLING."

This is in every sense an educational game. The box contains toy money representing about \$100 and thirty-six pictures of common-place commodities, such as a dozen eggs, a cord of wood, pound of coffee, ton of coal, etc., which are intended to be bought and sold as substitutes for the articles which they represent. The box also includes slips of manilla paper for making paper bags to hold bran or saw dust and be duly labeled as representing a variety of goods, unless the youthful merchants are allowed to fill them with the "real" things. Four sheets of printed labels are provided to be cut up so that the name of each article shall be on a separate slip, and the collection is rounded out by adding a form on which to make the paper bags and careful directions as to how it should be done, together with a printed list of the prices, in case the local price of any article is not known.

Price, each, \$0.50

BRADLEY'S FACSIMILE BUSINESS FORMS.

The contents of this set is as follows: Receipt for money on account; receipt for money in full of all demands; note—payable at bank; indorsed note; individual bank check; company bank check; certified check; draft unpaid; accepted draft; paid draft; certificate of deposit; itemized bill of goods; monthly statement; telegram sent; telegram received; stock certificate; coupon bond; business letter.

All of these forms are beautifully engraved and lithographed on superior paper, the same that is used by the best business houses. The notes, drafts and checks are shown with all the indorsements which appear on business paper that has actually passed through the banks and been returned to the makers. Each form representing a cash value bears the stamp, "No Value," so as to prevent its possible fraudulent use. The whole set of eighteen forms is attractively put up in an envelope.

Price, per set, \$0.50; postage, \$0.04

PRACTICE BLANKS.

We also offer a collection of receipts, notes, checks and drafts in packages, each containing fifty of the same kind to be used with the Business Forms. They are printed from the same plates as the facsimile forms, but spaces are left for local names and dates, so that the children can make all the indorsements required as the blanks are passed from hand to hand. The list of blanks is made up of Receipts, Notes, Individual Bank Checks, Company Bank Checks, Certified Checks and Drafts. In ordering be careful to state just what forms are wanted, as we do not sell assorted packages.

Price, per package, 50 of one kind, \$0.10; postage, \$0.03

THE SPRINGFIELD TRACING LEAVES.

This set of writing and tracing leaves is designed to be used for supplementary writing or busy work, and originated with Miss Anna E. Hill, supervisor of penmanship in the Springfield, Mass., public schools, who offers it as an entirely new method of teaching penmanship by combining reading and writing.

The words and sentences in the "Primary Writing and Tracing Leaves" have been very carefully selected from lists employed by teachers in the reading lessons, and from the various First Readers in general use throughout the country. When using them writing means something to the child in the beginning of his course, and becomes a part of his daily work; whereas by the old method the first six months of his school life were devoted to making slanting straight lines, right and left curves, and the thirteen short letters.

	Price.	Postage.
Per set, in envelope	\$0.10	
Per dozen . . . . .	.75	.12

SCHOOL SCISSORS.

We can offer to our customers a line of School Scissors which will satisfy all ordinary demands. The "Daisy" Scissors has black handles and very blunt points, but is a good tool for the price at which it is sold.

The "Daisy Improved Scissors" is a superior article, and fitted for any school-room work.

In response to a repeated demand, we have had an especially fine scissor manufactured, known as the "J. L. H. Scissor," which can be used for any purpose.

All the scissors are of steel, the "J. L. H." being a particularly fine quality.

"Daisy" Scissors, per dozen	\$0.75
"Improved Daisy," per dozen	1.25
"J. L. H.," per dozen	2.50

GEM PENCIL SHARPENER.

1st. It sharpens equally well both Lead and Slate Pencils.

2d. It does not break the leads.

3d. Any boy can run it.

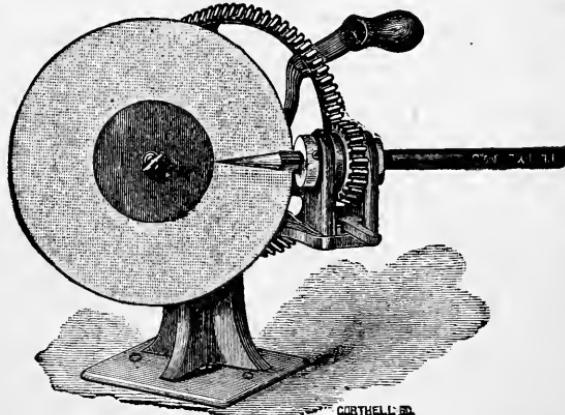
4th. A long or short bevel can be obtained without altering the machine.

5th. The chuck for holding the pencil is automatic, adjusting itself to pencils of any ordinary size.

To sharpen a pencil: Push the pencil through the chuck, pressing the end against the disc, and bring to a point by a few revolutions of the crank.

A package of one dozen sandpaper discs is put up with each machine, and should last for a term, at least. Additional packages, if desired, 20 cents each. The weight of machine when boxed and ready for shipment is seven pounds.

Price of Gem Pencil Sharpener, \$3.50



OBJECTIVE FRACTIONS.

Many devices have been used as aids for teaching fractions and the necessity for some concrete presentation of the subject to young children seems assured. The three following devices have been thoroughly tested, and while each has merits exclusively its own, all have the quality of economy which is important, if each pupil is to have his own material.

BRADLEY'S FRACTION DISKS.

These consist of cardboard disks, each of which is printed in sections of various colors, showing the circle divided into equal parts. There are six disks, showing wholes, halves, thirds, fourths, sixths and eighths.

The Teacher's set consists of six disks seven and one-half inches in diameter.

The Pupil's set consists of disks four inches in diameter, cut up to the same fractional parts.

The larger disks are to be held up by the teacher before the class, and the smaller ones to be used by the pupils.

Teacher's set, price per set, \$0.30; postage, \$0.06

Pupil's set, price per set, \$0.12

MRS. SHELDON'S FRACTION CIRCLES.

As the name indicates this scheme is based on the divided circle. Circular colored cards have printed on them radial lines dividing the surface into sectors of various sizes, to represent the fractions from one-half to one-twelfth. Each card is slotted from circumference to center along one of the lines, and there is also a plain white card which is slotted. When the white card is properly joined to a colored card it may be rotated so as to expose to view more or less of the fractional sectors. There are also circles of tough paper similarly printed which may be folded by the pupils. Each set in an envelope.

THE TEACHER'S SET.

Six colored cards and one white one, with twelve paper circles constitute the teacher's set.

Price, per set, \$0.25; postage, \$0.09

PUPIL'S SET.

Twelve paper circles are contained in the pupil's set.

Price, per set, \$0.15; postage, \$0.05

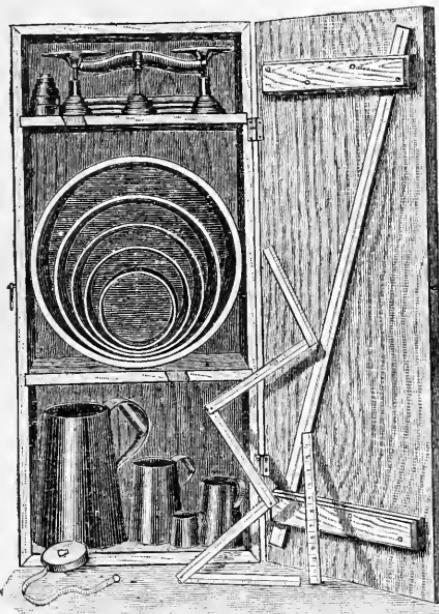
"OBJECTIVE FRACTIONS" RULERS.

This device for teaching fractions objectively can be used as effectively as the Fraction Disks, and is of even greater value in all work involving a comparison of the different features. The unit is a ruler twelve inches long and half an inch wide. Each set consists of ten such rulers, divided respectively into 2, 3, 4, 5, 6, 8, 9, 10, 12 and 15 equal sections, the alternate sections on each ruler being colored to make the division more marked.

Provided with a set of these rulers, a child can master the idea of a fraction with ease, learn to know at sight each fraction shown, quickly change fractions to larger, smaller and smallest terms and find the common measure of different fractions. He is then ready for all simple work in addition, subtraction, multiplication and division of fractions.

Price, per set, \$0.10; postage, \$0.02

CABINET OF WEIGHTS AND MEASURES.



LIST OF CONTENTS.

- 1—A set of Fairbanks balance scales.
- 2—A set of weights from 1 lb. down to $\frac{1}{2}$ oz.
- 3—A set of standard oak measures, well-finished, sealed and varnished, 1 quart, 2 quarts, 4 quarts, 8 quarts and 16 quarts.
- 4—A set of tin liquid measures, four pieces, 1 gill, 1 pint, 1 quart, 1 gallon. These are made without lips or flanges, to better convey a correct impression of actual size, and are neatly japanned.
- 5—A fifty-ft. tape measure in brass-bound, durable case.
- 6—A good hard-wood yard-stick accurately graduated to inches and eighths on one side, and on the other to fractions of a yard.
- 7—A foot-rule containing inches graduated to the following fractions:—
Fifths, tenths, twentieths, fortieths, sixths, twelfths, twenty-fourths, forty-eighths, eightths, sixteenths, thirty-seCONDS and sixty-fourths.
- 8—A folding meter, showing decimeters, centimeters and millimeters.
- 9—A large protractor-scale, 16 inches long, for measuring angles and for laying them out on the blackboard.
Well wrapped for shipping by freight or express. *Price, \$10.00
The style and quality of all this material is of a high grade, suitable in appearance and accuracy for the use intended.
The following articles may be conveniently added, as there is room for them in the cabinet:—
- 10—A cubical liter measure, made very accurately, of heavy stock, and well japanned to match the other liquid measures, and a balance weight accompanying it for the purpose described below.
Price, *\$0.60
- 11—A set of metric weights, from 1 kilogram to 10 grams. *1.50

A MANUAL DEMONSTRATION OF THE MENSURATION OF SURFACES AND SOLIDS.

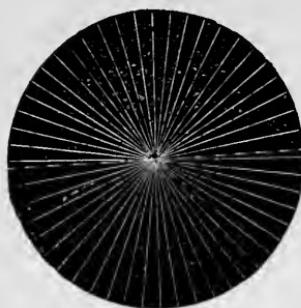


Fig. 1.



Fig. 2.

AREA OF THE CIRCLE.

This apparatus for illustrating the different problems of mensuration is the invention of L. W. Parish and is highly praised by those teachers who have put it to practical use. One exhibition of these simple manual demonstrations to a pupil who is studying mensuration, even before the mathematical demonstration is attempted, will impress the facts more firmly on his mind than weeks of drilling on formulas.

In the apparatus shown in figures 1 and 2 we have the manual demonstration that the area of a circle is equal to the radius, multiplied by one half the circumference. It consists of a large number of sectors, attached at their bases to a couple of pliable bands which can be joined together so as to make a circle with a diameter of eight inches, as represented in figure 1. If these two semi-circumferences are straightened out two comb-like forms are secured, and by inserting the teeth of one set between the teeth of the other set and closing the two together the rectangle shown in figure 2 is obtained. The base of this rectangle is the semi-circumference of the circle straightened out and its height the radius of the circle.

Price, per set, \$1.25; postage, \$0.15



Fig. 3.

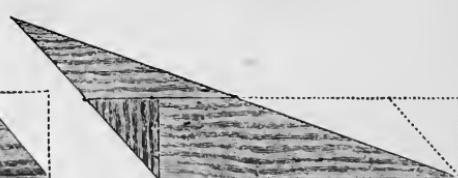


Fig. 4.

AREAS OF TRIANGLES.

Figures 3 and 4 demonstrate mechanically that the area of a triangle is equal to its base, multiplied by one half its altitude. Figure 3 illustrates the problem when a perpendicular from the apex falls within the base and figure 4 when it falls outside the base. The former is more simple and the latter more effective.

Both triangles are formed of boards which are divided and hinged in such a way that by simply swinging certain parts on their hinges the triangles become rectangles, twelve inches long and three inches high. When the triangles and the sectors which form the circle are ordered at the same time they will be packed together in a neat box.

	Price.	Postage.
The two triangles,	\$1.25	\$0.15
The two triangles and the circle sectors,	2.50	.25

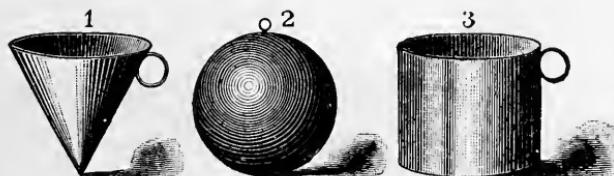


Fig. 5.

Fig. 6.

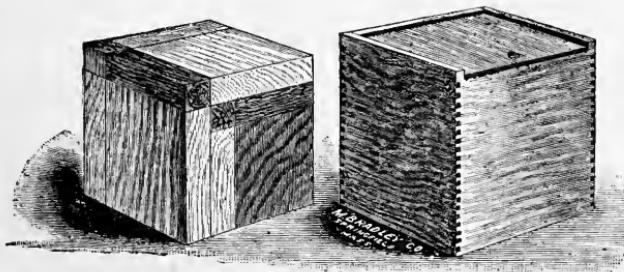
Fig. 7.

CONTENTS OF CONE, SPHERE AND CYLINDER.

These three pieces demonstrate the relation between the contents of a cone, sphere and cylinder. Figure 5 is a conical cup, three inches in diameter at the top, and three inches deep. Figure 6 is a solid sphere. Figure 7 is a cylindrical cup, three inches in diameter and three inches deep.

Actual demonstration shows that the contents of the cone three times filled with water fills the cylinder, and that if the cylinder is filled with water and the ball entirely immersed there will remain in the cylinder just water enough to fill the cone. It follows therefore that the contents of the three are as the numbers 1—2—3. The pieces are packed together in a box.

Price, per set, \$0.75; Postage, \$0.20

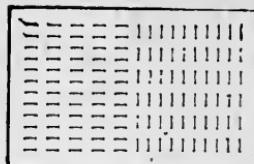


CUBE ROOT BLOCKS.

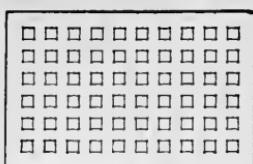
We sell a line of cube root blocks in which the several pieces are made with the same care and accuracy as our kindergarten blocks, which are acknowledged superior to any others ever produced.

The above illustration represents the No. 2 set, carrying the operation to two places. The solid cube in this set is one and a half inches square, making the complete cube two and a half inches. In the No. 1 set the solid cube is two inches square, with the completed cube two and a half inches. The blocks are made of three kinds of wood and the box is polished cherry, with strong lock-jointed corners.

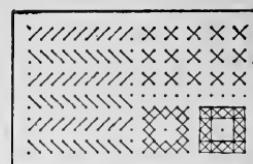
	Price.	Postage.
No. 1, to one place, per box,	\$0.60	\$0.10
No. 2, to two places, per box,	.80	.10



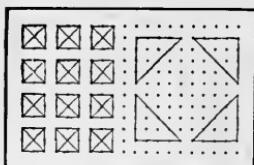
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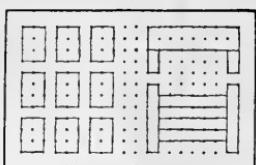
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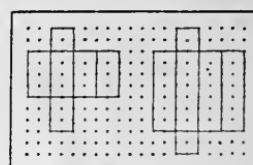
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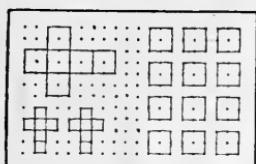
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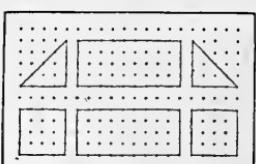
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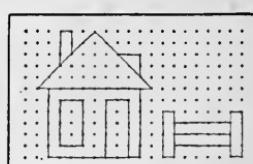
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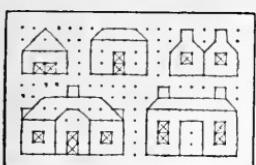
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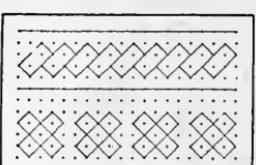
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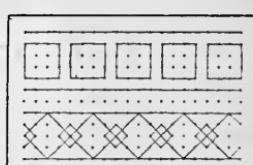
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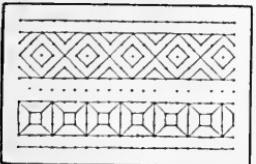
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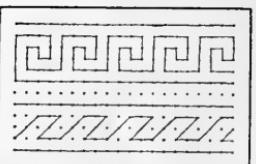
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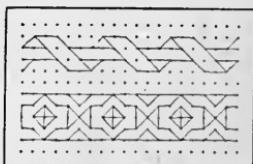
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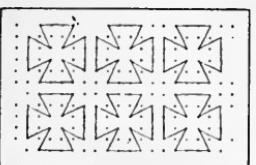
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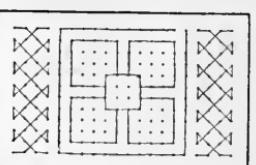
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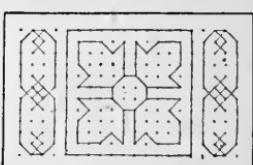
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16



17



18

PRIMARY PRICKED SEWING CARDS.

These cards are $5 \times 3\frac{1}{2}$ inches in size and the entire surface is pricked in quarter-inch squares—all the cards being pricked exactly alike. The above illustrations are furnished as examples of a few of the many ways in which the cards may be worked. The numbers represent the different designs, and should not be used by customers in ordering cards.

PRIMARY PRICKED SEWING CARDS.

Under this head we sell cards five inches by three and a half, pricked in squares of quarter-inches over the whole surface, which can always be used to advantage in connection with form-study and drawing. The geometric solids are now made the basis of all intelligent work in drawing, and the lines and plain figures found in these solids can be reviewed on the cards, and patterns worked out which have been previously designed with sticks and tablets. The diagram of designs accompanying this article is intended merely to furnish suggestive exercises, not to provide copies for school work. The designs are supposed to teach the formation of the following lines and figures:—

No. 1, Horizontal and Vertical lines.

“ 2, Squares.

“ 3, Oblique lines.

“ 4, Diagonals and Right-angled Triangles.

“ 5, Oblongs.

“ 6, Patterns of Square Prism.

“ 7, Patterns of Cubes and Squares.

“ 8, Three views of Square and Triangular Prism.

“ 9, Combinations of Triangles and Oblongs.

“ 10, Combinations of all forms previously used.

Nos. 11, 12, 13, 14, 15, Oblongs, Squares and Angles repeated horizontally.

No. 16, Surface Covering. Nos. 17, 18, Large figures illustrating repetition around a center, the use of a central form and all copies of designs that are first laid with tablets and worked out by means of parquetry and sewing.

Price, 100 cards, \$0.50; postage, \$0.15

EMBROIDERY DESIGN CARDS.

These cards are four inches by five and a half and contain a large variety of outline designs, printed with a dot at each point where a stitch is to be taken. Holes must be pricked at the dots before the sewing begins. For the convenience of customers and economy in handling the cards are put up in envelopes and sold in seven sets, being grouped as follows:—

Nos. 1, 2, Animals. Nos. 3, 4, Figures of children, etc.

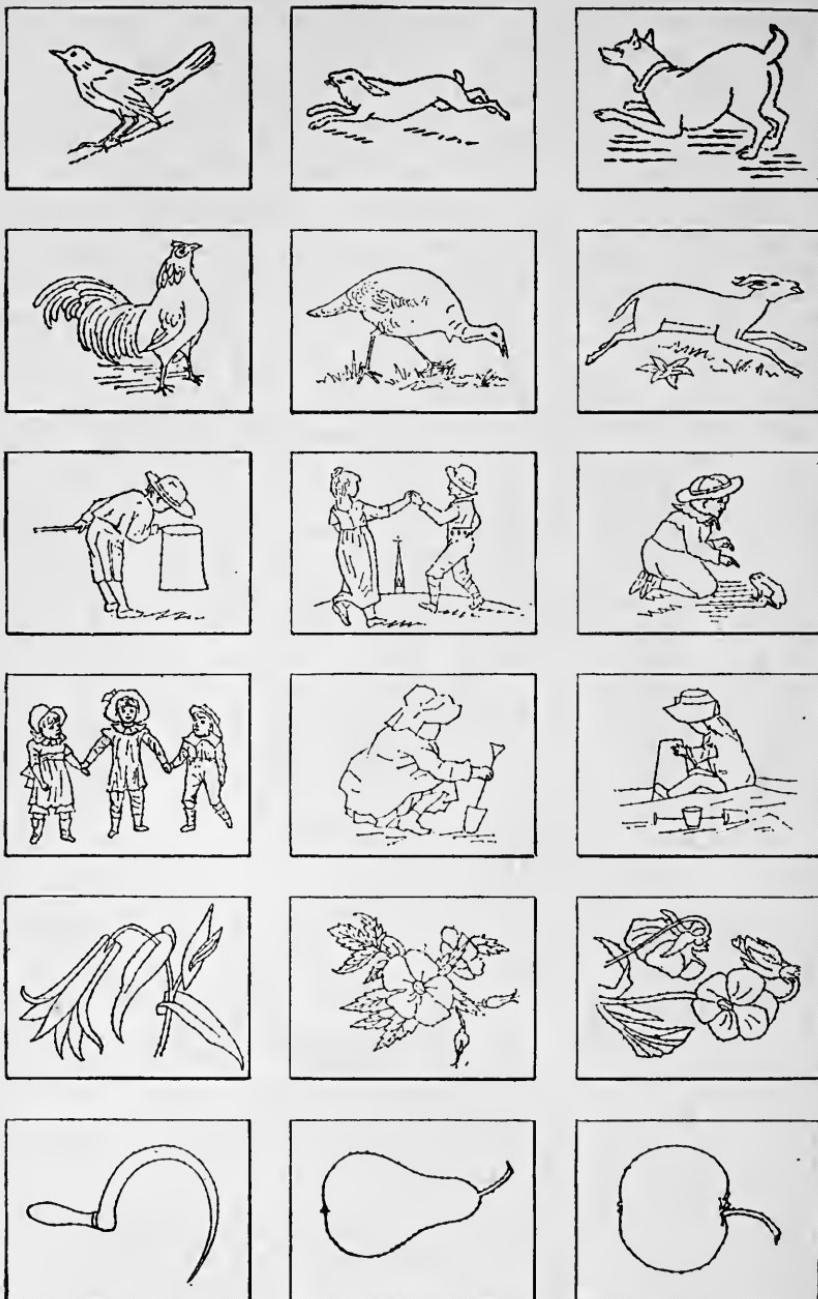
No. 5, Flowers. No. 6, Familiar objects, Hat, Drum, Vase, Pear, etc.

No. 7, Assorted designs from the other groups.

On the page of embroidery designs accompanying this article will be found reduced illustrations of the cards taken from the envelopes just mentioned, the top row representing samples from No. 1, the second row from No. 2, and so on down. The top row is represented as already worked and the rest of the pictures are shown with dots for pricking, as a preparation for working.

We also manufacture a line of Embroidery Cotton, in the six standard colors and a soft gray, to take the place of the costly embroidery silk which has been regarded necessary in kindergarten practice. It is on spools containing about three hundred yards each, assorted in red, yellow, blue, purple, green, orange and gray. We will send a sample of the cards and cottons to any address on receipt of a two-cent stamp.

		Price.	Postage.
A dozen envelopes of cards, 14 in each,	.	\$1.75	\$.25
“ “ spools of cotton, assorted colors,	.	.60	.10
“ “ pricking needles in handle,	.	.35	.02
“ “ felt cushions for perforating,	.	.50	.25



SUGGESTIONS FOR THE EMBROIDERY DESIGN CARDS.

For description of the full list of the **Allen** Kindergarten Cards, for Outline Embroidery or Color Work, send for special circular.

MISS ARNOLD'S NATURAL HISTORY SEWING CARDS.

These cards have been prepared by Miss Sarah L. Arnold of Minneapolis for use in connection with lessons regarding plants and animals, with special reference to the needs of primary classes and kindergartens.

The cards aim to provide industrial work which shall not only serve as a means of training the eye and hand, but also express in an interesting form the knowledge which the child gains in his study of natural history.

Now that elementary lessons in this science have found a place in every enlightened schoolroom these sewing cards afford an opportunity to illustrate and impress the facts learned through the pupils' observation of the objects which are being studied. The sewing should follow the intelligent observation of those objects.

The teacher's supervision of the work will in great measure determine its value. If her directions and questions are thoughtful the pupils will execute their part thoughtfully.

Miss Arnold's Natural History Cards are divided into four sets and pertain to Plants, Vertebrates, Birds and Invertebrates.

The set which pertains to Plants consists of fifty cards 4 x 5 inches in size, lithographed on substantial manilla stock and sold in boxes. The sets pertaining to Vertebrates, Birds and Invertebrates each have twenty-five cards, 4½ x 5½ inches in size, lithographed on fine, white stock and sold in envelopes.

Each package contains a descriptive circular giving the contents of all the packages and directions for embroidering the designs and conducting the science lessons which should always go with the sewing. We will mail this circular to any address on application. The different sets are sold as follows:—

		Price.	Postage.
Plants, No. 1 box, 50 cards of one design,	.	\$0.35	\$.10
Plants, No. 2 box, 50 different designs,	.	.40	.10
Plants, 12 cards assorted to order,	.	.12	.02
Vertebrates, 25 cards in envelope,	.	.30	.05
Birds, 25 cards in envelope,	.	.30	.05
Invertebrates, 25 cards in envelope,	.	.30	.05

CARDS OF GEOMETRIC FORMS.

This set of cards is identical in size and material with those relating to Vertebrates, Birds and Invertebrates, although it does not belong to the series of sewing cards designed by Miss Arnold. The twenty-five cards are intended to be used with lessons in elementary form-study and this is the list:—

Sphere and Hemisphere, Cylinder, Cube, Square Prism, Triangular Prism, Hexagonal Prism, Cone, Square Pyramid, Hexagonal Pyramid, Ellipsoid and Half-ellipsoid, Ovoic and Half-ovoid, Circles with Diameters and Radii, Oblong, Square with Diameter and Diagonals, Half-square and Equilateral Triangle, Isosceles Triangle, Scalene and Obtuse-angle Triangles, Hexagon and Pentagon, Designs in Circles, Designs in Squares, Designs in Equilateral Triangle, Designs in Hexagon and Designs in Pentagon.

Price, per set \$0.30; postage, \$0.05

BIBLE SEWING CARDS.

In response to many requests from parents and Sunday School workers we offer two sets of sewing cards which pertain to objects frequently named in the Bible. They are lithographed on excellent white stock and the designs can be artistically worked out with colored silk, thread or worsted. The cards of set A are $5\frac{1}{2} \times 7\frac{1}{2}$ inches, and these are the twelve subjects:—

Map of the Bible World, The Tabernacle, Altar of Incense, Altar of Burnt Offerings, Table of Shewbread, Golden Candlestick, High Priest, Woman at the Well, Shepherd, Camel, Temple, Map of Palestine. The cards of set B are $4 \times 5\frac{1}{2}$ inches, and the subjects are as follows: Tablets of the Law, Trumpets, Horn, Harp, Flute, Cymbals, Lamp, Book, House, Olive Tree, Cedar of Lebanon and Palm Tree.

	Price.
Set A, 12 cards in envelope,	\$0.30
Set B, 12 cards in envelope, . . . . .	.20

COLUMBIAN SEWING CARDS.

These cards are like set A of the Bible cards as regards size and stock and are intended for use in the home and primary school. These are the twelve subjects: The Santa Maria, Route of Columbus, First Sight of Land, Landing of Columbus, Columbus in Chains, North American Indian, Wigwam or Tepee, Bow, Arrows and Tomahawk, Calumet and Wampum, Puritan, Liberty Bell, United States Flag. Each envelope has printed on it directions for pricking the cards and working the outlines. For a description of the material which can be used to advantage in doing this work see the kindergarten numbers 172, 174, 194, 196, 197 and 199 of this catalogue.

Price, per set, \$0.30

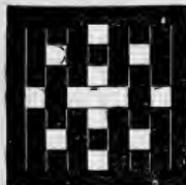
COOLEY'S WRITING EMBROIDERY CARDS.

The object of these cards is to provide means for the adaptation of form study to writing. They help to fix in the child's mind a correct image of the form of the script letters, while furnishing him agreeable desk work. He should work the type-forms of the letter in one color and the remainder in some other color that harmonizes with it. There are seventy-eight different cards, representing the small letters and capitals of the alphabet, many of the capitals being given in both the business and standard forms, and ten figures.

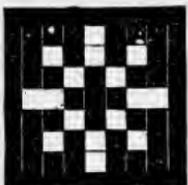
Fifty cards of one letter are put up in a box for school use. Boxes are also provided that have the twenty-six capitals and small letters and the ten figures, making sixty-two pieces. We also publish a set of the writing cards for family use, consisting of an assortment of different letters, with a felt pad, pricking needle and embroidery cotton in the assorted colors, a very desirable outfit for the nursery. We will also sell the cards by the dozen, each customer to make her own selection. Before ordering send for a descriptive circular, which shows the different forms of the capitals.

	Price.
Per dozen cards,	\$0.12
No. 1 box, 50 cards of one letter or figure, . . . . .	.40
No. 2 box, sample set of letters, 62 pieces, . . . . .	.50
No. 3 box, assorted letters and sewing outfit, . . . . .	.30

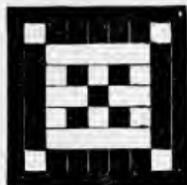
PRIMARY SCHOOL DIAGRAMS. TO BE USED WITH MRS. HAILMANN'S MATS.



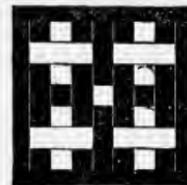
7-7



7-8



7-9



7-10

In the kindergarten, where the pupils are few and the teacher has an abundance of time to devote to each exercise, it is customary to do the paper weaving by dictation, and every movement of the children follows a direction from the teacher. But in a large primary school, where the teacher must have supervision of at least half a dozen different things at the same time, those methods are often impossible. As a help to such teachers the box of Primary School Diagrams is added to our list of material, at the suggestion of Miss Rose Jackson of Hartford, Ct.

It contains forty-eight diagrams, a few samples of which are given above, printed in black and white, on substantial cardboard. Each piece is about nine inches square, with holes at the top, so that it can be readily hung on the blackboard or wall, in sight of all the children. After the pupils have mastered the first principles of weaving the teacher can hang up one of these diagrams and tell a part of the school to work out with their mats and fringes the pattern it contains, while she is busy with another class. For a description of Mrs. Hailmann's Graded Mats see the kindergarten department of this catalogue, Nos. 1200 to 1216.

Price of diagrams, per box, *1.00

PEN LETTERING.

This portfolio contains twenty-four sheets of Alphabets, ancient and modern, plain and ornamental, for the use of draftsmen, engineers, architects and students of industrial drawing in all its branches. The collection is intended to supply them with a large variety of letters in such styles as can be perfectly imitated with a pen.

Many of the most valuable sample books of alphabets now published are printed from finely-engraved plates so that nearly all of the letters depend for their pleasing effect on fine line-shading which cannot be imitated with a pen, although these effects may sometimes be approximately produced by India-ink washes. Such methods are not, however, suited to the ordinary practical work of the present day.

In this assortment there are a number of modern styles which are adapted to maps, plans, machinery and architectural drawings. No attempt has been made to furnish an exhaustive line of alphabets for exact copying, the intention being to provide such a selection as may suggest many modifications suitable for a variety of uses. The fact that a given style of letter is included in the collection does not prove it to be in the best taste, as that is a question to be decided by each student or his teacher. These plates are issued unbound in a portfolio, because a large bound book of lettering is always so inconvenient for practical use in an office and the sheets are very apt to get detached from the binding.

Price, per set, \$0.25

ARITHMETICAL SOLIDS AND GEOMETRICAL FORMS.

These pieces are quite different from the Geometrical Surfaces and Solids, although the box contains some of the same forms. The arithmetical combinations of the units represented by cubes are very valuable and the two will not come amiss in any school. The twenty-six pieces are put up in a wooden box and each numbered as follows:—

- | | |
|------------------------|------------------------------------|
| 1 Sphere. | 12 Cube (Eight times No. 11). |
| 2 Hemisphere. | 13 Cube (Eight times No. 12). |
| 3 Prolate Spheroid. | 14 Parallellopipedon. |
| 4 Oblate Spheroid. | 15 Parallellopipedon. |
| 5 Pyramid and Frustum. | 16 Parallellopipedon. |
| 6 Cone and Frustum. | 17 Parallellopipedon. |
| 7 Cylinder. | 18 Oblique Prism (3 pieces). |
| 8 Triangular Prism. | 19 Parallellopipedon. |
| 9 Square Prism. | 20 Parallellopipedon. |
| 10 Hexagonal Prism. | 21 Carpenter's Theorem (4 pieces). |
| 11 Cube. | |

*Price, per box, \$2.00

SUPPORT FOR DRAWING MODELS.

The Springfield Support for Drawing-models can be readily adjusted and also removed from the desk at pleasure. The neat wooden table on which the models lie, within easy reach of the pupil sitting at the desk, is supported by a wooden rod which passes through a hole in the top of the desk. A metallic cam attached to the top of the desk, at the corner opposite the ink-well, holds by friction the rod and the table at any desired height. The table can quickly be removed from the rod and may be placed in the desk, or collected with those from the other desks and be kept in a suitable cupboard when not in use. The rod is then dropped to the level of the desk-top, so that nothing is seen above the desk.

*Price, each, \$0.25

THE SPRINGFIELD PANTOGRAPH.

The present educational methods create a general demand for various conveniences for copying engravings and drawings when the subject to be copied must be enlarged or reduced. For blackboard work many small engravings from books of geography, botany, geology and other branches of natural history can be used to advantage, provided they can be accurately and conveniently transferred to the board.

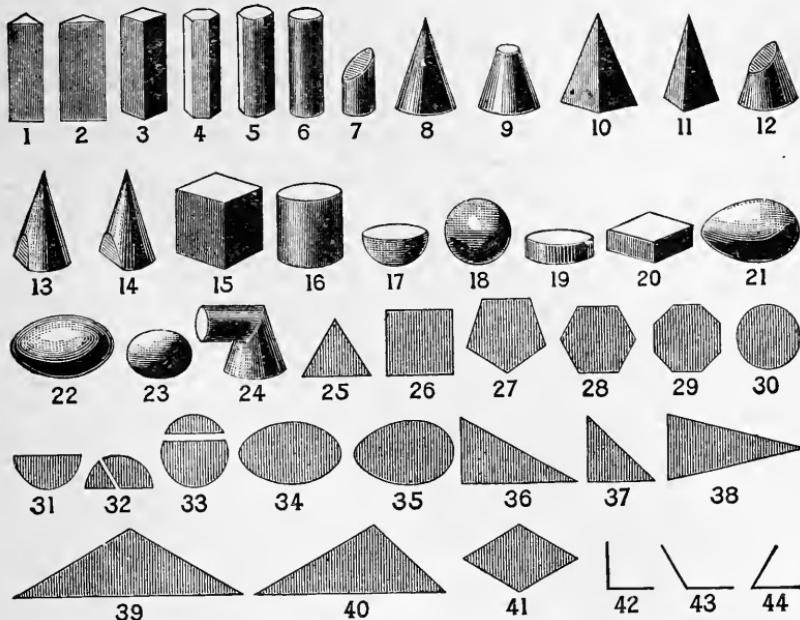
This pantograph is not a toy roughly constructed, such as have hitherto been in the market, but is an accurate instrument, at a low price. In its mechanical construction no care has been spared to make it of practical use. The holes in the bars are accurately spaced, drilled to fit the thumb-screw pivots and numbered to indicate the correct adjustment for any required size to which the design is to be enlarged or reduced.

As regards certain details of construction and for convenience of manipulation the Springfield Pantograph is superior to anything of the kind which has ever been offered the public, even at a much greater cost.

Each instrument is accompanied by carefully-prepared directions for use.

Price, each, \$0.50; postage, \$0.05

FOR OBJECT TEACHING.

EACH FORM IS STAMPED WITH ITS NUMBER IN THE LIST.

This set of forms embraces the common surfaces and solids which are found in elementary geometry, together with a simple illustration of angles. As shown in the above cut, there are twenty-three solids, seventeen surfaces and three angles, the latter being represented by bent wires. The solids and surfaces are accurately and neatly made from well-seasoned hard wood.

The curves of the Conic Sections, Ellipse, Parabola and Hyperbola are very clearly indicated by the plain surface on three separate cones—the fourth showing the circle as a rectangular section.

No.

- 1 Equilateral Tri. Prism.
- 2 Right-angled Tri. Prism.
- 3 Square Prism.
- 4 Hexagonal Prism.
- 5 Octagonal Prism.
- 6 Cylinder.
- 7 Cylinder with Diagonal Sect.
- 8 Cone.
- 9 Truncated Cone.

- 10 Pyramid, Square Base.
- 11 Pyramid, Triangular Base.
- 12 Cone Truncated Diagonally.
- 13 Cone, with section showing the Hyperbola.
- 14 Cone, with section showing the Parabola.
- 15 Cube.
- 16 Cylinder.

- 17 Hemisphere.
- 18 Sphere.
- 19 Circular Plinth.
- 20 Square Plinth.
- 21 Ovoid or Egg.
- 22 Ellipsoid.
- 23 Oblate Spheroid.
- 24 Combination of 7 and 12.

SOLIDs.

- 25 Equilateral Triangle.
- 26 Square.
- 27 Pentagon.
- 28 Hexagon.
- 29 Octagon.
- 30 Circle.
- 31 Semi-circle.

- 32 Two Unequal Sectors.
- 33 Two Unequal Segments.
- 34 Ellipse.
- 35 Oval.
- 36 Right-angled Scalene Tri-angle, having its two acute angles 30° and 60° .

- 37 Right-angled Isosceles Tri.
- 38 Acute-angled Isosceles Tri.
- 39 Obtuse-angled Isosceles Tri.
- 40 Obtuse-angled Scalene Tri.
- 41 Rhombus, Diamond or Lozenge, made from two equilateral triangles.

SURFACES.

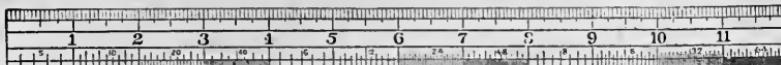
- 42 A Right Angle, formed by a bent wire representing a line.
- 43 Obtuse Angle.

- 44 Acute Angle.

The fact that an oblique section of a cone is an ellipse, as well as the oblique section of a cylinder, is shown by combining Nos. 7 and 12.

PRICE, neatly put up in a strong wooden box \$2.00

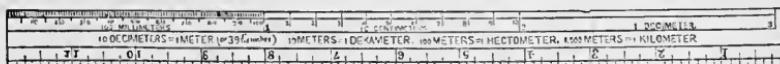
THE MECHANIC'S RULE—BASSWOOD.



One edge of this rule is divided into sixteenths of inches, for ordinary use. On the other edge are twelve different divisions, from 5 to 64, accurately engraved by a screw machine, a variety found elsewhere only on the expensive scales of the mechanic or draftsman. This rule is a very convenient help in any schoolroom, being especially useful in giving the children a definite idea of the minute fractions of an inch.

Price, each, \$0.01; postage, \$0.01

THE METRIC RULE—BASSWOOD.



On one edge of this rule, which has been termed the International Rule in former editions of this catalogue, inches and eighths are printed, and the other edge contains the metric measure, while in the center is found the metric measures for long distances. This rule is valuable as a constant presentation of the principal quantities in the metric system, where it is taught, and gives a ready comparison of the two lineal measures.

Price, each, \$0.01; postage, \$0.01

The postage for a dozen of either of the Basswood Rules is four cents.

THE PRIMARY SCHOOL RULE.

This rule is for use in the lowest grades and is graduated in quarter inches, so that the little folks who handle it need not be taxed with finer divisions. It has been prepared at the request of prominent school officers and teachers.

Price, each, \$0.03; postage, \$0.01

THE GRAMMAR SCHOOL RULE.

This rule is graduated in sixteenths of inches and in every way well finished. There is nothing like it for standing the ordinary wear and tear of schoolroom service and giving the pupils an accurate idea of a foot.

Price, each, \$0.03; postage, \$0.01

THE MANUAL TRAINING RULE.

This is a hand-polished rule, about three-quarters of an inch wide, with one edge beveled, graduated by steel dies accurately engraved by machinery. This rule is divided into sixteenths of an inch, the gradations being plainly marked.

Price, each, \$0.06; postage, \$0.01

When ordered by the dozen the postage on the Grammar School Rule or the Manual Training Rule will be ten cents.

THE INDUSTRIAL DRAWING RULE.

This is a thin rule, one inch wide, with one edge beveled and graduated to inches and sixteenths. In addition to its use for making measurements this wide, this rule is designed to go with draftsmen's triangles in elementary industrial drawing.

Price, \$0.10; postage, \$0.02

FLAT DRAWING SCALES.

This set is made of rock maple, in the ordinary form of box-wood scales. It comprises three pieces, each of which has two beveled edges, and each edge contains a scale, so that the set gives six graduated edges.

No. 1 contains the 12-inch rule in sixteenths on one edge and the 1-inch scale on the other edge.

No. 2 contains the 3-inch scale and the $1\frac{1}{2}$ -inch scale.

No. 3 contains the $\frac{3}{4}$ -inch scale and the $\frac{1}{4}$ -inch scale.

Price, each, of Nos. 1, 2 or 3, \$0.15; postage, \$0.02

When ordered by the dozen the postage on the Industrial Drawing Rule or the Flat Drawing Scales will be thirteen cents.

THE ARCHITECT'S TRIANGULAR SCALE.



This scale is not only good enough for all educational purposes, but is a practical article for the regular use of architects and draftsmen. All the scales are carefully inspected and selected at each stage of manufacture, being finely-finished with a good hand-rubbed shellac polish and provided with a manilla case, to serve as a permanent protection for the edges. When ordered by the dozen the postage will be twenty-three cents.

Price, each, \$0.50; postage, \$0.03

All the rules and scales in this list not designated as Basswood are made from carefully selected rock maple and are accurately graduated.

A PROTRACTOR SCALE.

For other angles than those provided in the triangle, a protractor is necessary to complete the line of instruments for blackboard work. It is furnished in the rectangular form of a protractor scale of heavy tough paper-board, sixteen inches long and about five inches wide, representing a circle of sixteen inches diameter, divided to degrees. Price, each, \$0.25

OUR YARDSTICK.

A good hard-wood yardstick, graduated down to inches and eighths on one side, affords a light and accurate measure. Price, each, \$0.10

GRADUATED OPEN-FRAME TRIANGLE.

The graduated open-frame triangle gives the necessary angles, 90° , 60° , and 30° , on a large scale, together with inches and subdivisions. This instrument is twenty and three quarters and twelve inches on the two legs respectively, is very accurate and strongly made, and is exceedingly useful for blackboard work, or in laying out large diagrams for any purpose.

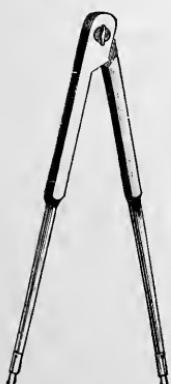
*Price, each, \$0.50

THE BLACKBOARD COMPASSES.

The work of constructing a circle, if of any value, must be done mechanically, hence the need of compasses in the primary schoolroom, as well as in the higher grades. We have in stock two styles of dividers Nos. 1 and 2. The first is a fine article, with patent adjustable crayon-holders and metal points, so constructed that either leg will hold a crayon or a point. No 2, represented in the cut, is the best compasses for the price, in the market, each leg being adapted to receive a crayon or a point.

Price.

No. 1, each,	.	.	.	.	.	.	.	*	\$1.00
No. 2, each,	.	.	.	.	.	.	.	*	.50



No. 30 MAPLE RULES.

On one edge of this rule, inches and eighths are printed, while the other edge contains the metric measure, and in the center is found the metric measure for long distances. This rule, while similar to the basswood metric rule, is much more serviceable, being one and one-quarter inches wide, made of maple and varnished.

Price each, 3 cents; postage, 1 cent.

No. 35 MAPLE RULES, PLAIN EDGE.

These rules are of extra heavy maple, carefully graduated, thus making very serviceable rules. They are made both twelve and fifteen inches long.

Price, each, 12 inch	\$0.05;	postage, \$0.02
" " 15 " . . . . .	.08;	" .02

No. 35 MAPLE RULES, BRASS EDGE.

These rules are the same as the No. 35 plain, with the addition of a brass edge. This, under some circumstances, makes them more useful. These rules come in two lengths, twelve and fifteen inches.

Price, each, 12 inch	\$0.10;	postage, \$0.02
" " 15 " . . . . .	.15;	" .02

THE BEAM COMPASSES.



This instrument is devised to meet the demand for durable compasses at a low price. The length of the circle's diameter is regulated by moving the crayon-holder up or down the slide.

*Price, each, \$0.25

THE PERFECTION CARDBOARD PROTRACTOR.

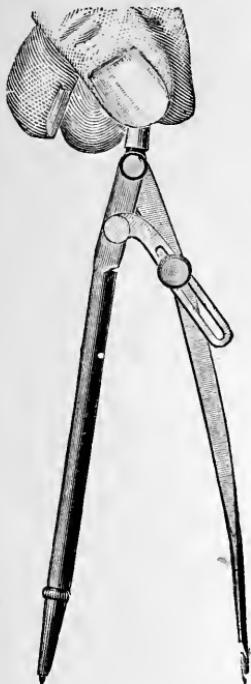
This instrument is four inches in diameter, and is made from cardboard prepared expressly for this purpose, and graduated with a very accurately engraved die.

Price, per dozen, by mail, \$0.30

THE SPRINGFIELD SCHOOL COMPASSES.

This instrument is five and one-half inches long, thereby covering a range of work sufficient for all demands, without an inconvenient spread of the legs.

Price, each, 35 cents; postage, 3 cents.



THE ARTIST'S PENCIL COMPASSES.

Never give beginners poor tools to work with. If a good and experienced workman needs good tools, how much more does the learner, if we expect him to produce good results.

The Artist's Compasses is a step in that direction ; made in the best manner, and of the best material, with brace and set screw to keep the leg in any required position, and the best adjustable lead point, of just the right degree of hardness.

PRICE OF COMPASSES, 25 CENTS.

EXTRA LEADS, 10 CENTS PER DOZEN.

DRAWING STENCILS FOR OUR LITTLE ARTIST.



We have a new line of stencils in American designs which are much more attractive to American children than the foreign collections. We publish two sets, No. 1 and No. 2, bearing the title "Drawing Stencils For Our Little Artist." Each box contains twenty stencils, with a stock of practice drawing paper. A few of the best designs are duplicated in both boxes, but most of them are different in the two numbers.

Price, No. 1 or No. 2, each, \$0.25 ; postage, \$0.08

THE SPRINGFIELD INDUSTRIAL DRAWING KIT.

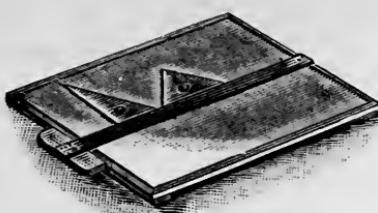


FIG. 1.

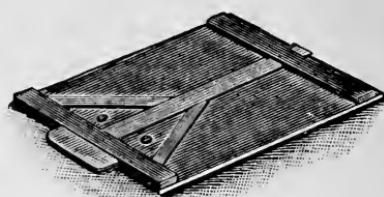


FIG. 2.

The Springfield Industrial Drawing Kit is intended for use in grammar and high schools, the family, the office and the shop.

Fig. 1 shows the top side of the board furnished with a pad of paper and with the T square and the triangles in position for use. Fig. 2 represents the back of the board with the T square and the triangles locked securely in place, so as to form one complete article when not in use, which may be conveniently packed away in the schoolroom or carried to and from the home or evening drawing class.

The draftsman or architect fastens the sheet of paper on which he works to his drawing board with thumb tacks, but this method is both expensive and inconvenient in public school work for which the smaller sizes of kits are designed, and hence for these sizes pads of paper are prepared. A pad consists of ten or twenty sheets of drawing paper and is slightly glued to the board at each corner. As fast as a sheet is finished it is separated from the remainder of the pad and usually placed in a portfolio or large envelope of such size as to receive the sheet without folding.

Each pupil has his own envelope or portfolio, so as to keep his finished work of a term neatly for reference and examination. The pads are sold separately and can easily be attached to the boards with fish glue. The kits are made in four sizes as quoted below, but pads are neither made nor recommended for sizes larger than No. 2 Kit.

	KITS.	Price.
No. 1, 10 x 12 inches,	*\$0.30
No. 2, 13 x 19 "	*.50
No. 3, 17 x 22 "	*.75
No. 4, 17 x 22 " finer finish,	\$1.00
No. 5, 18 x 24 "	\$1.25
	PADS.	Price.
For No. 1 Kits, made from No. 20 paper, 20 sheets,	\$0.04
For No. 1 Kits, parchment drawing paper, 20 sheets,05
For No. 1 Kits, Springfield white drawing paper, 20 sheets07
For No. 1 Kits, machine hand-made paper, 10 sheets,06
For No. 2 Kits, No. 20 paper, 20 sheets,08
For No. 2 Kits, parchment drawing paper, 20 sheets,10
For No. 2 Kits, Springfield white drawing paper, 20 sheets,14
For No. 2 Kits, machine hand-made paper, 10 sheets,12
Envelope for No. 1 Kit, each,02
Portfolio for No. 1 Kit, press-board covers,06
Portfolio for No. 2 Kit, board covers,35
Portfolio for No. 3 Kit, board covers,50

Samples of drawing paper mailed, for a two-cent stamp.

Best Manilla Drawing Paper, with hard, rough surface, well adapted for practice in all ordinary work. Size, 24 x 36 inches. Price per ream, \$4.80. Cut 9 x 12 inches, 60 cents per ream. Cut 6 x 9 inches, 30 cents per ream.

J. L. H. Manilla Drawing Paper, same as the above, only lighter in color.

"Our Own" White Sketching Paper. This is a clean white paper, with a hard, rough finish, good for either pencil or pen drawing, for free-hand or mechanical work. Size, 24 x 36 inches. Price per ream, \$9.00. Cut 9 x 12 inches, \$1.20 per ream. Cut 6 x 9 inches, 60 cents per ream.

"Our Own, Extra Heavy" White Sketching, same as above in quality, but a very much heavier paper. Size, 24 x 36 inches. Price per ream, \$12.00. Cut 9 x 12 inches, \$1.50 per ream. Cut 6 x 9 inches, 75 cents per ream.

Patent Hand-made Drawing Paper. This is a superior paper, of the best white stock, thoroughly sized and having a patent surface, in imitation of the best hand-made linen papers. It will bear all the erasing required in mechanical drawing, and is an excellent paper for water-color work. Size, 24 x 36 inches. Price per ream, \$12.00. Cut 6 x 9 inches, 9 x 12 inches, 12 x 18 inches, if desired.

Samples of any of the above papers sent on application.

Extra Heavy Manilla Modelling Paper, or "Oak Tag," for making objects, in packages of 100 sheets (9 x 12 inches), per package, 50 cents.

Two packages of this paper will supply a class of 50 pupils.

Price for other sizes furnished upon application.

DRAWING BOOKS.

6 x 9, Manilla, per 100, 20 pages	\$2.00
9 x 12, Manilla, per 100, 20 pages	4.00
6 x 9, "Our Own" Paper, per 100, 20 pages	2.50
9 x 12, "Our Own" Paper, per 100, 20 pages	5.00

Sketch Books, 4½ x 7, Manilla Paper, board covers, per dozen \$1.80

Small Sketch Books, 4½ x 6, 20 pages, white paper, per 100 2.00

Charcoal Pads, 12 x 18, each60

Sketching Pads, "Our Own" Paper, white, 6 x 9 inches, each10

Any other size and style made to order.

PHOTOGRAPHS.

To teach the eye to see and cultivate the taste, one must constantly look at truly beautiful things. To develop this wonderful study of Drawing to its fullest extent, the pupil should have at hand for study, or to copy, pictures that will vitalize his drawing and connect it with his other studies. We have a list of 1,500 classified photographs selected especially for this purpose. These photographs serve several purposes, *i. e.*, as aids in Drawing, History, and Language Study, as well as to ornament the schoolroom. Size, 8 x 10. Price, 40 cents. Send for special circular.

For Pencils and Rubber, see page 99.

For helpful books for Drawing, see our list on pages 83 to 95, inclusive.

T SQUARES.

No. 1. 14½ inches	\$0.10
" 2. 20 " . . . . .	.15
" 3. 25 " . . . . .	.20

Other sizes furnished as desired.

TRIANGLES.

No. 1. 4½ inches	\$0.05
" 2. 7 " . . . . .	.10
" 3. 7½ " . . . . .	.10

PORTFOLIOS.

7 x 10 inches, pressboard, with linen back	\$0.08
10 x 13 " " " " . . . . .	.10

Other sizes to order.

STEEL THUMB TACKS. Per gross \$1.00

BRASS-HEAD THUMB TACKS. Per gross \$2.40 to 9.00

REMBRANDT WATER COLORS.

This is a palette box, porcelain lined, furnished with three fine camel's hair brushes and twelve of the most desirable and useful colors.

Per dozen \$4.50

MUCILAGE.

3-ounce bottles, per dozen	\$1.00
Pints " "	6.00
Quarts " "	10.00

PASTE.

3-ounce bottles, per dozen	\$0.80
8-ounce " "	2.00

AMERICAN FIXATIE.

4-ounce bottle	\$0.20
Half-pint " . . . . .	.35
Pint " . . . . .	.65
Quart "	1.15

ATOMIZERS FOR APPLYING FIXATIE.

No. 269. A.—Folding Tubular	\$0.25
B.—Large Tin . . . . .	.50
Favorite . . . . .	.50
A No. 2.—Folding Nickel-plated Tubular	1.25

PATTERNS FOR SNOW FLAKE CRYSTALS.

Sixty Patterns designed by M. L. Hartigan, and used by Miss A. L. Page of the Boston Schools in her work. They will be printed on heavy card; twelve designs on each card.

Price, complete, \$1.00.

DRAWING FROM OBJECTS.

First.—WOODEN MODELS are first presented, of different sizes, of the Cube, Sphere, Cylinder, and other geometric solids, with which each pupil should be supplied.

PRICE LIST OF SEPARATE PIECES OF WOODEN MODELS.

SOLIDS—Teacher's Size, A.

Cube, 4 inches face, solid	\$0.40
Cube, 4 inches face, incised faces . . . . .	.45
Cube, 4 inches face, quartered diagonally . . . . .	.60
Sphere, 4 inches diameter, solid . . . . .	.60
Sphere, 4 inches diameter, halved and quartered . . . . .	.75
Sphere, 4-inch diameter, divided and dowelled	1.00
Hemisphere, 4 inches diameter . . . . .	.50
Cylinder, 4 x 8 inches, solid . . . . .	.60
Cylinder, 4 x 8 inches, divided and dowelled	1.00
Hollow Cylinder, 4 x 8 inches, divided and dowelled	1.25
Hollow-flanged Cylinder, 4 x 8 inches, divided and dowelled	1.40
Cone, 4 x 8 inches, solid . . . . .	.60
Cone, 4 x 8 inches, divided and dowelled	1.00
Double Cone, 4 x 8 inches . . . . .	.75
Double Cone, 4 x 8 inches, divided and dowelled	1.15
Square Prism, 4 x 8 inches . . . . .	.60
Square Prism, 4 x 8 inches, divided diagonally . . . . .	.90
Square Plinth, 2 x 6 inches . . . . .	.40
Oblong Block, 4 x 3 x 8 inches . . . . .	.50
Square Pyramid, 4 x 8 inches . . . . .	.60
Square Pyramid, 4 x 8 inches, divided and dowelled	1.00
Right-angled Triangular Prism, 4 x 5 x 8 inches . . . . .	.60
Equilateral Triangular Prism, 4 x 8 inches . . . . .	.60
Pentagonal Prism, 4 x 8 inches . . . . .	.65
Hexagonal Prism, 4 x 8 inches . . . . .	.65
Hexagonal Pyramid, 4 x 8 inches . . . . .	.75
Octagonal Prism, 4 x 8 inches . . . . .	.65
Circular Plinth, 2 x 6 inches . . . . .	.40
Cubical Steps, 4 inches face . . . . .	.50
Flight of Three Steps, 8 inches long, 2 inches tread, 1½ inches riser . . . . .	.75
Cross, 2 x 6 inches . . . . .	.30
Chimney Model, 4 x 8 inches, divided and dowelled	1.00
Egg and Egg Cup, 4 x 8 inches	2.00
Spool, 6 x 7 inches	1.50
Frame (a) 12 inches square, 4 pieces halved . . . . .	.40
Frame (b) 12 inches square, 4 pieces mortised . . . . .	.40
Bracket Model, 8 x 12 x 1 inch . . . . .	.75
Pulley Model, diameter 5 inches, divided and dowelled	1.25
Vase (a) 8 x 12 inches	3.00
Vase (b) 8 inches high . . . . .	.75
Vase (c) 8 x 12 inches	3.00
Vase (d) 6 inches high . . . . .	.75
Ovoid, 4 x 6 inches . . . . .	.75
Ellipsoid, 4 x 6 inches . . . . .	.75

SOLIDS—Pupils' Size, B.

Cube, 2 inches face	\$0.05
Square Prism, 2 x 4 inches . . . . .	.05

SOLIDS—Pupils' Size, B.—Continued.

Square Pyramid, 2 x 4 inches	\$0.05
Right-angled Triangular Prism, 4 inches long . . . . .	.05
Equilateral Triangular Prism, 4 inches long . . . . .	.05
Sphere, 2 inches diameter . . . . .	.05
Hemisphere, 2 inches diameter . . . . .	.05
Cylinder, 2 x 4 inches . . . . .	.05
Cone, 2 x 4 inches . . . . .	.05
Ellipsoid, 2 inches short diameter . . . . .	.05
Ovoid, 2 inches short diameter . . . . .	.05
Vase . . . . .	.05
Double Cone, 2 x 4 inches . . . . .	.05
Hexagonal Prism, 2 x 4 inches . . . . .	.05
Square Plinth, 3 x 3 x 1 inch . . . . .	.05
Circular Plinth, 3 x 1 inch . . . . .	.05

SOLID S—Pupils' Size, C.

Cube, 1 inch face	\$0.03
Square Prism, 1 x 2 inches . . . . .	.03
Square Pyramid, 1 x 2 inches . . . . .	.03
Right-angled Triangular Prism, 2 inches long . . . . .	.03
Equilateral Triangular Prism, 2 inches long . . . . .	.03
Sphere, 1 inch diameter . . . . .	.03
Hemisphere, 1 inch diameter . . . . .	.03
Cylinder, 1 x 2 inches . . . . .	.03
Cone, 1 x 2 inches . . . . .	.03
Ellipsoid, 1 inch short diameter . . . . .	.03
Ovoid, 1 inch short diameter . . . . .	.03
Vase . . . . .	.03

TABLETS—Teacher's Size, A.

Circle, 12 inches diameter	\$0.25
Square, 12 inches diameter . . . . .	.25
Broad Oblong, 12 inches long . . . . .	.25
Semicircle, 12 inches diameter . . . . .	.25
Right-angled Triangle, 12 inches long . . . . .	.25
Narrow Oblong, 12 inches long . . . . .	.25
Isosceles Triangle, 12 inches . . . . .	.25
Equilateral Triangle, 12 inches . . . . .	.25
Broad Ellipse, 12 inches . . . . .	.25
Narrow Ellipse . . . . .	.25
Oval . . . . .	.25

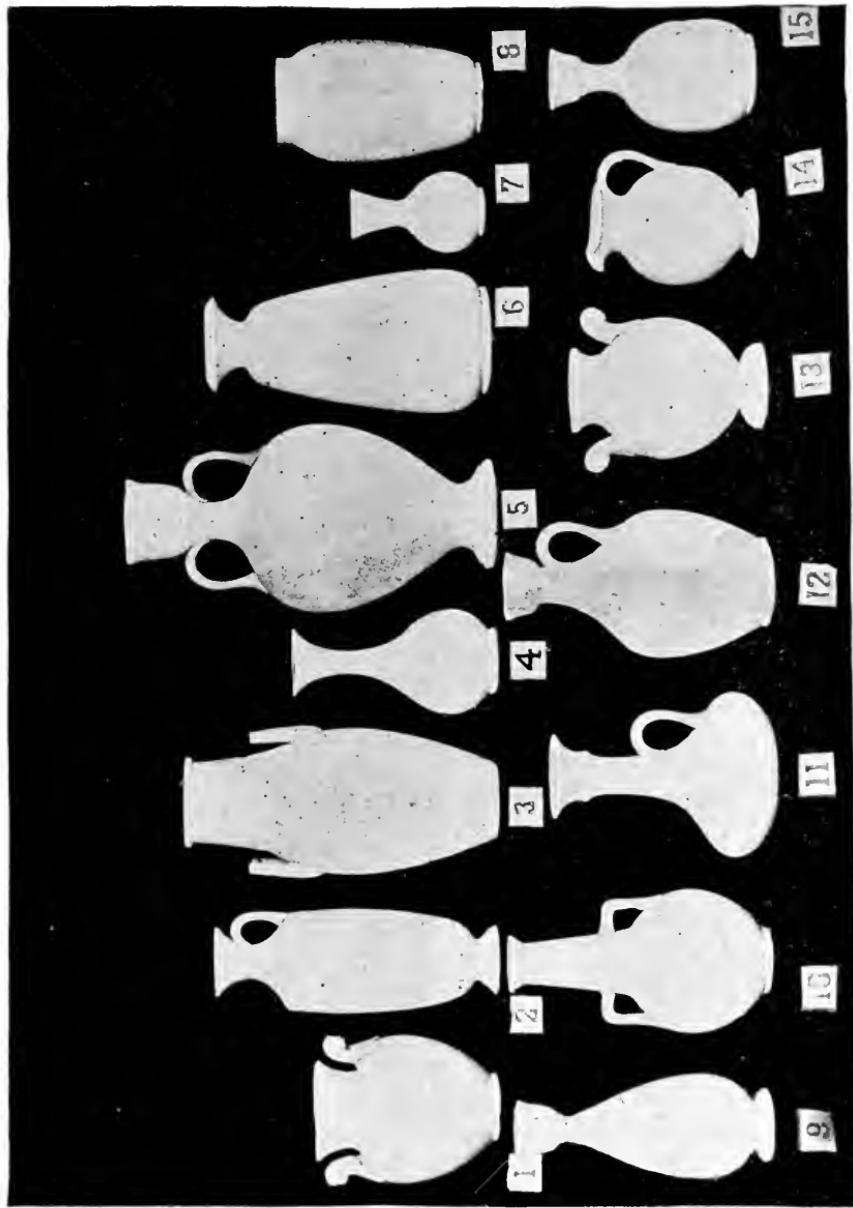
TABLETS—Pupils' Size, B.

Circles, per hundred	\$1.00
Semicircles, per hundred	1.00
Squares, per hundred	1.00
Oblongs, per hundred	1.00
Triangles, per hundred	1.00
Ellipses, per hundred	1.00
Ovals, per hundred	1.00

TABLETS—Pupils' Size, C.

Circles, per hundred	\$0.50
Semicircles, per hundred . . . . .	.50
Squares, per hundred . . . . .	.50
Oblongs, per hundred . . . . .	.50
Triangles, per hundred . . . . .	.50
Ellipses, per hundred . . . . .	.50
Ovals, per hundred . . . . .	.50

Second.—DRAWING COPIES on sheets about six inches square, comprising the Square, Circle, Oval, and Ellipse—one form on each sheet, price per 100 \$0.25



These elegant VASE FORMS have been selected with great care, and are made especially for MODELS in drawing and for ornamentation.

Height.	Price.	Height.	Price.	Height.	Price.
No. 1. 7 inches . . .	\$2.00	No. 6. 9½ inches . .	\$2.00	No. 11. 6½ inches . .	\$1.75
" 2. 10½ " . . .	2.00	" 7. 4½ " . . .	.50	" 12. 8½ " . . .	2.00
" 3. 10½ " . . .	3.00	" 8. 6½ " . . .	1.50	" 13. 6 " . . .	1.75
" 4. 6½ " . . .	1.00	" 9. 7½ " . . .	1.50	" 14. 5 " . . .	1.00
" 5. 12½ " . . .	4.00	" 10. 8½ " . . .	2.00	" 15. 6½ " . . .	1.00

Many teachers have found it difficult to get a line of colored pencils suited for primary-school work, because a plain crayon is too frail and not sufficiently neat, and wax crayons in woods have been too expensive, so that for several years we sought in vain for an assortment which would, in every respect, meet their wants.

But we are now selling a superior line of free-working colors, strong in texture and put up in finely-polished woods, corresponding in colors with the pencils, at a price which is remarkably low, considering how economically the pencils can be used when manufactured in this way.

PENCILS 7 INCHES LONG.

In ordering from the following list it will be sufficient to give the numbers, as an indication of the color required, being careful to state that pencils 7 inches long are wanted.

- 718 Blue, Ultramarine, standard.
- 710 Bluè, Prussian blue.
- 738 Blue, greenish hue.
- 703 Blue, greenish hue, light tint.
- 726 Blue, slightly darker shade of 710.
- 735 Violet.
- 716 Violet, tint, slightly lighter than 735.
- 724 Violet, shade.
- 731 Yellow Brown (Umber.)
- 714 Shade of 731.
- 750 Crimson, or Violet hue of Red.
- 712 Red.
- 743 Red, tint.
- 725 Red, shade.
- 717 Red, darker shade.
- 704 Orange.
- 733 Orange, yellow hue.
- 747 Orange, greenish hue.
- 742 Shade of 747 in brownish hue.
- 702 Yellow.
- 733 Yellow, Orange hue.
- 706 Green.
- 745 Green, yellow hue.
- 713 Green, blue hue.

Price, each, \$0.06 ; Postage, \$0.01

PENCILS 4½ INCHES LONG.

We sell an assortment of pencils 4½ inches long in the six colors, Red, Blue, Yellow, Green, Orange, Violet. In ordering specify that the pencils 4½ inches long are desired and mention the color, or else say "assorted in box."

	Price.	Postage.
1 pencil,	\$0.02	\$0.01
6 pencils, assorted in box, . . . . .	.10	.02

In addition to the pencils listed above we have a composition slate pencil in wood, in the three colors, Red, Yellow and Blue.

Price, for the three, \$0.05 ; Postage, \$0.02

THE BRADLEY COLOR OUTFIT.

All color effects seen in nature are produced by reflected sunlight, and color in art is the imitation of these effects by the use of pigmentary colors. The Bradley Scheme of Color Instruction is based on the adaptation of the scientific laws of color as discovered in nature to the analysis and combination of pigmentary colors in art; and is original in its details.

This system is concisely stated in the following four propositions:—

FIRST, SIX SPECTRUM STANDARDS.

We select as standards, the six locations in the solar spectrum best expressing the six colors, Red, Orange, Yellow, Green, Blue and Violet. For these standards the most intense expression of each color is chosen; as, for example, the reddest Red, greenest Green, etc.

SECOND, PIGMENTARY STANDARDS.

We produce the best possible pigmentary imitations of these six spectrum standards, which with Black and White, furnish eight pigmentary standards.

THIRD, DISK COMBINATIONS.

We adopt Maxwell Color Disks made in these eight pigmentary standards, and by the rotation of these on the color wheel produce an indefinite number of other colors which may be definitely named in terms of the eight pigmentary standards.

FOURTH, COLORED PAPERS.

These papers comprise about 175 different colors, classified as follows: "Pure Spectrum Scales," "Black, White and Grays," "Broken Spectrum Scales," "Engine Colored Papers." The first three classes are coated papers, colored on one side and with plated finish. The fourth class comprises special engine-colored papers, colored in the pulp and therefore alike on both sides. These several classes furnish the most complete collection of educational colored papers yet made.

The peculiar features of this system are the selection of definite scientific standards in the solar spectrum and the combination of pigmentary imitations of these standards by means of the rotating disks, to produce and accurately name innumerable other colors found in nature and art. This system is based on the well known fact that all colors in nature are derived from sunlight by absorption and reflection, and is in opposition to the old theory of three primary colors, red, yellow and blue and the claim that all natural colors may be imitated in pigmentary colors by the combination of red, yellow and blue pigments.

This is the only system of elementary color instruction based on the science of chromatics and embodying a nomenclature by which tests and experiments made in one school or class can be recorded and compared with similar experiments made and recorded in other places.

Our outfit comprises a GLASS PRISM, COLORED PAPERS manufactured specially for education in color, the COLOR WHEEL with a line of MAXWELL COLOR DISKS in various sizes, the COLOR TOP, a miniature color wheel for pupils' use, and several COLOR CHARTS for explaining the principles of color combinations.

GLASS PRISMS.

We offer three sizes of prisms which give excellent results considering the moderate cost. By the use of either one a small spectrum can be shown on the wall of any schoolroom having a sunny exposure during any part of the day.

THE EDUCATIONAL COLORED PAPERS.

This collection comprises nearly 175 colors, as shown in our sample book, divided into four sections by title leaves, as follows: "Pure Spectrum Scales," "Black, White and Grays," "Broken Spectrum Scales," "Engine Colored Papers." These several lines of papers are prepared in accordance with the principles of the Bradley Scheme of Color Instruction which has already been accepted by a large number of the leading colleges and universities as the basis for experiments in their psychological laboratories.

The section, "Pure Spectrum Seales" contains coated papers in spectrum colors with tints and shades.

The second division contains White and Black and four kinds of Grays, Neutral Gray, Warm Gray, Cool Gray and Green Gray.

The third section called "Broken Spectrum Scales" comprises twelve spectrum scales of three tones each, in which the spectrum color in each scale is subdued by grays, thus producing a line of colors which are very beautiful when artistically combined.

The fourth division of the book entitled "Engine Colored Papers" consists of a special line of stained papers, not coated, and hence of the same color on both sides, and thus specially adapted to paper folding. This line furnishes the first engine colored papers in families or scales ever made for educational uses. Stained papers cannot be produced in the pure spectrum colors, but owing to the method of manufacture are somewhat broken, but this line furnishes six families or scales of three tones each, namely, Red, Orange, Yellow, Green, Blue and Violet, making eighteen in all, with twelve other beautiful Browns and Grays, and Black and White.

A sample book of the above complete line of colored papers will be mailed to any address on receipt of three two cent stamps.

Each book contains samples of about 175 colors classified and divided by title leaves. On each sample is imprinted its name or number by which it may be ordered in full sheets, or in smaller sizes, provided a considerable quantity is wanted. For particulars the reader is referred to the price list on the following page and also to the directions given in the Kindergarten Department of this catalogue, in connection with No. 220 and the several numbers relating to Parquetry, Paper Cutting and Weaving.

The engine colored papers are of special value in the kindergarten folding exercises, and for directions regarding them the reader is referred to No. 223, in the Kindergarten Department, together with the several numbers pertaining to Parquetry, Paper Cutting, Weaving and Paper Folding.

Green papers have long been regarded as unsafe, because they contain arsenic, and as color manufacturers are introducing the same ingredient into many other colors it has become impossible for any dealer to guarantee any papers bought in the market as free from this poisonous chemical, because for ordinary use there is no objection to the arsenic. Our papers, however, are all made to order and guaranteed free from arsenic.

THE COLOR WHEEL.

The Bradley Color Wheel is the result of gradual evolution in the adaptation of the old and crude color mixer of the early physical laboratory, to the requirements of that practical investigation which is now demanded in the study of all subjects related to science or physics. Color perception is caused by physio-psychological effects which have until recently received

scant attention in the lower grades of education and consequently the means for securing and recording accurate knowledge on the subject have been exceedingly limited. The Bradley Color Scheme has been prepared with direct reference to the relations of color in art to this line of investigation and instruction, and the Color Wheel in its present form is a valuable acquisition in this work.

Three grades of the Color Wheel are now made.

The **LABORATORY WHEEL** is a complicated and finely constructed machine for making very accurate physio-psychological tests regarding color perceptions, in which it is possible to gradually change the relative proportions of the exposed surfaces of two combined disks during rotation, and to record the same on a graduated scale.

The **HIGH SCHOOL WHEEL**, represented in the accompanying illustration is the popular machine for general investigation and demonstration in the higher grades of grammar and high schools. Each machine is provided with four sizes of disks, eight of each size, and graduated disks. In the engraving three sizes of disks are shown in combination, with the graduated disk at the back.

Each wheel of this grade is provided with thirty-two color disks, and the combinations which can be made on the wheel, showing tints, shades, hues, complementary colors, broken colors, values, etc., are almost endless, and exceedingly valuable in Color Investigation. Wherever the Color Wheel is introduced into any schoolroom by a skillful teacher the closest attention and enthusiastic interest are insured on the part of the pupils.

The **PRIMARY SCHOOL WHEEL** is smaller than the high school machine, more simple in construction and has but two sizes of disks, sixteen in all. With this instrument all experiments may be performed which are necessary in the lower grades of schools.

THE COLOR TOP.

At the suggestion of a prominent educator a miniature color top shown in the accompanying illustration has been prepared. With this the pupil

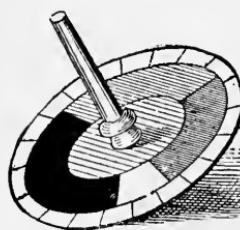
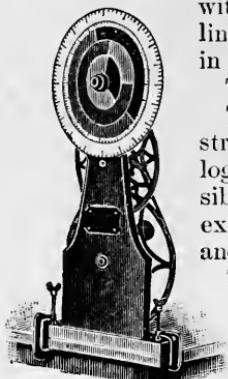
may at pleasure repeat very many of the experiments which may have been presented to the class with the larger "Color Mixer," and this personal work will effectually fix in the pupil's mind the facts and thereby prepare the way for an understanding of the theories involved in the combinations. In truth the color top is a very fascinating plaything for adults as well as for the children.

With a color wheel in the hands of a trained teacher and a color top for each pupil such progress in color perceptions can be made as has never been possible by any other means.

SPECIAL COLOR CHARTS.

For the use of teachers we prepare a number of ready made charts relating to the subject of color.

RAINY DAY SPECTRUM.—A small spectrum made from our colored papers, about an inch wide and thirteen inches long mounted on cardboard.



LARGE SPECTRUM.—About five inches wide and thirty inches long, mounted on cloth.

SAMPLE BOOK OF BRADLEY EDUCATIONAL COLORED PAPERS.—This little book contains samples of the Pure Spectrum Scales, Black, White and Grays, Broken Spectrum Scales and Engine Colored Papers.

CHART OF PURE SPECTRUM SCALES, No. 1.—A folding cardboard chart hinged in five vertical sections with space duly labeled to receive colored papers, which are cut to a size of about $\frac{1}{2} \times 2$ inches and sold with the folding chart; to be gummed in place by the purchaser.

CHART OF PURE SPECTRUM SCALES, No. 2.—A cardboard chart folding into four sections by horizontal hinges, with papers two inches square pasted in place. Chart twelve inches wide by about forty-five inches long from top to bottom when unfolded.

CHART OF BROKEN SPECTRUM SCALES.—On folded cardboard, same size and form as above and containing thirty-six colors in twelve scales of three tones each. This chart when shown with chart of Pure Spectrum Scales No. 2, illustrates very forcibly the difference between pure colors with their tints and shades and broken colors in various tones.

PRICE LIST OF COLOR OUTFIT.

	Price.	Postage.
Laboratory Color Wheel,	*\$75.00	
High School Color Wheel, with Disks in Box,	*10.00	
One Set of Disks for above, in Box,	*2.00	
Primary School Color Wheel, with Disks,	*4.00	
One Set of Disks, for above, in portfolio, . . . . .	.50	.06
Color Top, by mail, . . . . .	.06	
Color Top, per dozen by mail, . . . . .	.50	
No. 1 Prism, . . . . .	.10	.01
No. 2 Prism, . . . . .	.15	.03
No. 3 Prism, . . . . .	.30	.04
Package, 4 x 4 papers, 100 pieces, Assortment A or B, . . . . .	.20	.04
Package, 5 x 5 papers, 100 pieces, Assortment A or B, . . . . .	.30	.05
Package, 6 x 6 papers, 100 " . . . . .	.30	.07
Package, 6 x 9 papers, 50 " . . . . .	.30	.05
One sheet of paper, 20 x 24, any color in sample book, . . . . .	.04	.06
Rainy Day Spectrum, . . . . .	.10	.04
Large Spectrum on Cloth, thirty inches long, . . . . .	.25	.04
Sample Book, . . . . .	.05	.01
Chart of Pure Spectrum Scales, No. 1, papers unmounted, . . . . .	.50	.10
Chart of Pure Spectrum Scales, No. 2, papers mounted,	1.00	.15
Chart of Broken Spectrum Scales, No. 3 papers mounted, . . . . .	.75	.15

Assortment A, named in the above list of prices, contains the six spectrum standards with one tint and one shade of each and grays.

Assortment B contains the intermediate hues with one tint and one shade of each. A list of the assortments in the other packages will be furnished on application.

Customers sending for 6 x 6 papers, 100 pieces to a package, must order twelve packages or any multiple of twelve at one time, and those wanting 6 x 9 papers, fifty pieces to a package, must take eight packages or multiples of eight, otherwise the paper will cut to such disadvantage that we cannot afford to sell these packages at the prices named. In ordering select any of the colors in the sample book for either of these packages,

EASY STUDIES IN ILLUMINATING. A FIRST LESSON IN WATER COLORS.

This is a portfolio of twelve Homely Proverbs in outline which are to be illuminated in water colors, prepared by Ella J. Mahoney and Ella Warner.

Each set contains an extra sheet in colors and full directions for the selection and handling of the water colors.

The proverbs are as follows:—

A Stitch in Time Saves Nine, Stroke the Fur the Right Way, A Penny Saved is a Penny Earned, Never Too Late to Mend, Cleanliness is next to Godliness, Birds of a Feather Flock Together, Well Begun is Half Done, A New Broom Sweeps Clean, Make Hay While the Sun Shines, When the Cat's Away, the Mice Will Play, All's Well that Ends Well, Tall Oaks from Little Acorns Grow.

The whole set furnishes superior practice in the applying of water colors neatly, and is so simple that the results are interesting from the beginning.

Price, each, \$0.25; postage, \$0.05

STUDIES IN NATIVE WOODS.

Much attention is now given to nature study in our kindergartens and in many of our primary schools, and the children thereby gain some knowledge of our native fruit and forest trees, but thus far the "woods" as used in our manufactures have received scant consideration, and many of us who are so unfortunate as to have been educated in large towns and cities entertain but little idea as to what kinds of woods we see every day.

From this thought has originated the project of putting into some form, convenient for educational purposes, samples of our native woods in connection with good illustration of the leaves, flowers and forms of the trees from which the woods are derived.

As a result of this scheme, we have now ready for sale a series of such studies, each representing a tree, comprising Rock Maple, White Maple, Elm, White Oak, Red Oak, Black Walnut, Butternut, Chestnut, Hickory, Whitewood, Basswood, Poplar, Southern or Pitch Pine, White Pine, Spruce and Hemlock.

Each of these studies consists of a lithographed card representing in natural colors the leaf, flowers, fruit and full tree, framed in the wood under consideration, and having mounted on it two tablets of the same wood showing side and end of grain. The frame is 12 x 15 inches outside and is polished in the natural color of the wood. The two tablets showing side and end of the grain have no finish.

For convenience and protection these sixteen studies are put up in two strong cases covered with binders' cloth and lettered in gilt Vol. I and Vol. II, with title and contents. When standing on a shelf the lettering is in view on the front of the case, and the contents are protected from the light and dust.

Although the preparation of these studies has consumed much time, on the part of the author and of the artists and the mechanical work has required intelligent workmen, the publishers offer them to Kindergartens, Schools, Colleges and Libraries at a very modest figure.

A descriptive pamphlet of thirty-six pages explaining the methods of sawing, finishing and polishing the woods, and giving a description of each of the sixteen trees, accompanies each set of studies.

Price, each set of two volumes, \$15.00

SPECIAL BOOKS AND SUPPLEMENTARY READING.

*Prices in first column are Publishers' list prices. Prices in second column special to Teachers.
Books starred* will be sent postage paid.*

ADAMS, OSCAR FAY.						
Manual of Rhymes. Selections in Phrases	\$0.25	\$0.20				
ADLER, FELIX.						
The Moral Instruction of Children	1.50	1.20				
ADLER, MRS. FELIX.						
Hints for Scientific Observation and Study of Children . . . . .	.15					
AGASSIZ, LOUIS.						
Life and Correspondence. 2 vols. Edited by his wife	4.00	3.20				
A First Lesson in Natural History	*.25					
ALLEN, JEROME.						
Temperament in Education. Cloth . . . . .	.50	.40				
Mind Studies for Young Teachers. Cloth . . . . .	.50	.40				
Historic Outlines of Education. Paper	*.15					
ANDERSON.						
Happy Hunting Ground; or, the New Game of Zoölogy. 120 cards . . . . .	.50	.40				
ANDREWS, JANE.						
Seven Little Sisters. Cloth . . . . .	.50					
The Story Mother Nature told her Children . . . . .	.50					
Ten Boys . . . . .	.50					
Each and All . . . . .	.50					
APGAR, E. A.						
Trees of the Northern U. S.	1.00					
Map Drawing Book . . . . .	.48					
New Plant Analysis . . . . .	.55					
ARNOLD, SARAH L.						
Language Helps for Teachers . . . . .	.25					
Waymarks for Teachers	1.25					
UGSBURG, D. R.						
Drawing Simplified	1.00					
Elementary Drawing Simplified . . . . .	.75					
Drawing Simplified for pupils, 3 nos. Each . . . . .	.30					
Drawing Cards . . . . .	.30					
Easy Things to Draw . . . . .	.30	.24				
Easy Drawings for the Geography Class . . . . .	.50	.40				
Busy Work in Drawing. Chalk Marks for the Blackboard . . . . .	.20					
BADLAM, A. B.						
Stories of Child Life. 1. At Home . . . . .	.24					
" " " 2. At Play . . . . .	.30					
" " " 3. In the Country . . . . .	.36					
" " " 4. At School . . . . .	.42					
Aids To Number.						
First Series, Teacher's Edition . . . . .	.40					
" " Pupil's " . . . . .	.30					
Second " Teacher's " . . . . .	.40					
" " Pupil's " . . . . .	.30					
Suggestive Lessons in Reading and Language	1.50					
Suggestive Lessons in Language50					
Chats with Young Teachers	*.20					
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A First Year in Drawing. Cloth75					
BAIN, ALEX.						
Education as a Science. Cloth	1.75	1.40				
BALCH.						
Teaching Patriotism	1.50	1.30				
BALDWIN, JOSEPH.						
Elementary Psychology in Education	1.50	1.20				
Psychology Applied to the Art of Teaching	1.50	1.20				
School Management	1.50	1.20				
BALL.						
Form Study and Drawing . . . . .	.40	.32				
BALLOU, EMMA L.						
Lessons in Right Doing. 2 vols. Each . . . . .	.42					
BALLOU, MATURIN M.						
Footprints of Travel. Cloth	1.00					
" " Boards . . . . .	.70					
BAMBERGER, G.						
Education of Head and Hand. Cloth . . . . .	.50	.40				
BAMFORD.						
Up and Down the Brooks . . . . .	.75	.60				
BARNARD, HENRY, Editor.						
Kindergarten and Child Culture Papers						
BARNES' HISTORICAL SERIES.						
A Brief History of the United States						
BARNETT, JOS.						
Flag Drill						
Prices of Flags for same furnished upon application.						
Broom Drill and Brigade Tactics for Boys and Girls. Paper						
BARTHOLOMEW, WM. N.						
System of Drawing						
BASS, GEORGE F.						
Select Stories for Opening Exercises in School. Cloth						
BASS, M. FLORENCE.						
Nature Stories for Young Readers. Boards						
BAXTER'S						
Choice Dialogues, containing Ten Dialogues						
BEALE.						
Calisthenics and Light Gymnastics for Home and School						
BEEBE.						
First Steps in Figures. Pupil's edition						
" " " " Teacher's edition	1.00	.90				
BEER.						
Talk with Pupils. Cloth						
BELLAMY, BLANCHE WILDER, and GOODWIN, MAUD WILDER.						
Open Sesame. 3 vols. Each						
BENNETT.						
Best Thoughts of Leading Educators. Cloth						
BERGEN, FANNY D.						
Glimpses at the Plant World						
BERT, PAUL.						
First Steps in Scientific Knowledge						
Primer of Scientific Knowledge						
BETZ, CARL.						
Gymnastic Manuals:						
Gymnastic Tactics						
Popular Gymnastics						
Free Gymnastics for Graded Schools						
Abridged Edition of the Free Gymnastics for Ungraded Schools						
Light Gymnastics						
BIERBOWER.						
Virtues and their Reasons						
BILLROTH, THOMAS.						
The Care of the Sick						
BLACKIE, JOHN STUART.						
Self-Culture						
BLAKE.						
Manual Training in Education						
BLAIKIE, WM.						
How to Get Strong and How to Stay So						
Sound Bodies for Our Boys and Girls						
BLOW, SUSAN E.						
Symbolic Education. Cloth						
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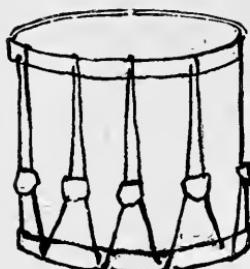
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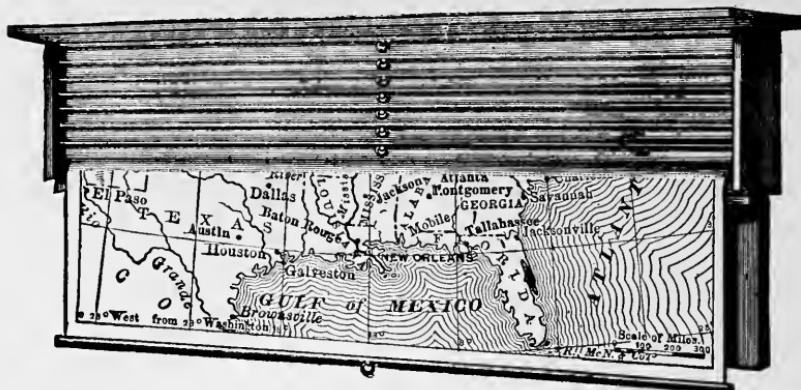
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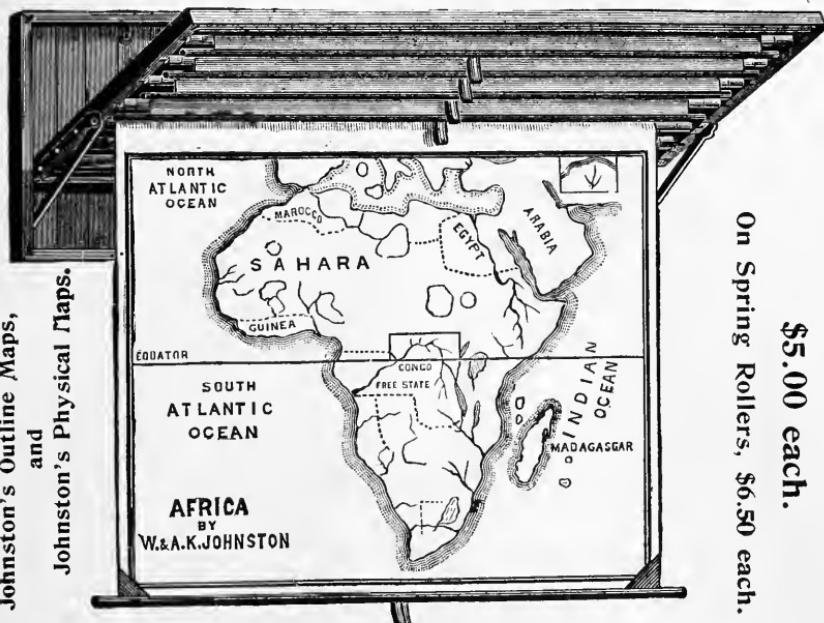
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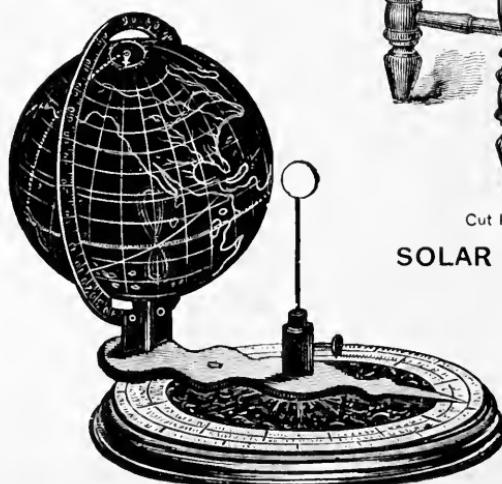
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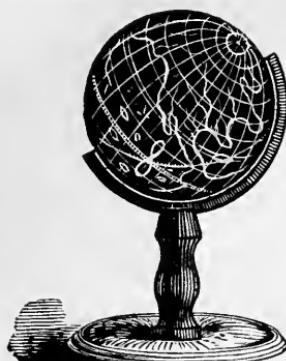
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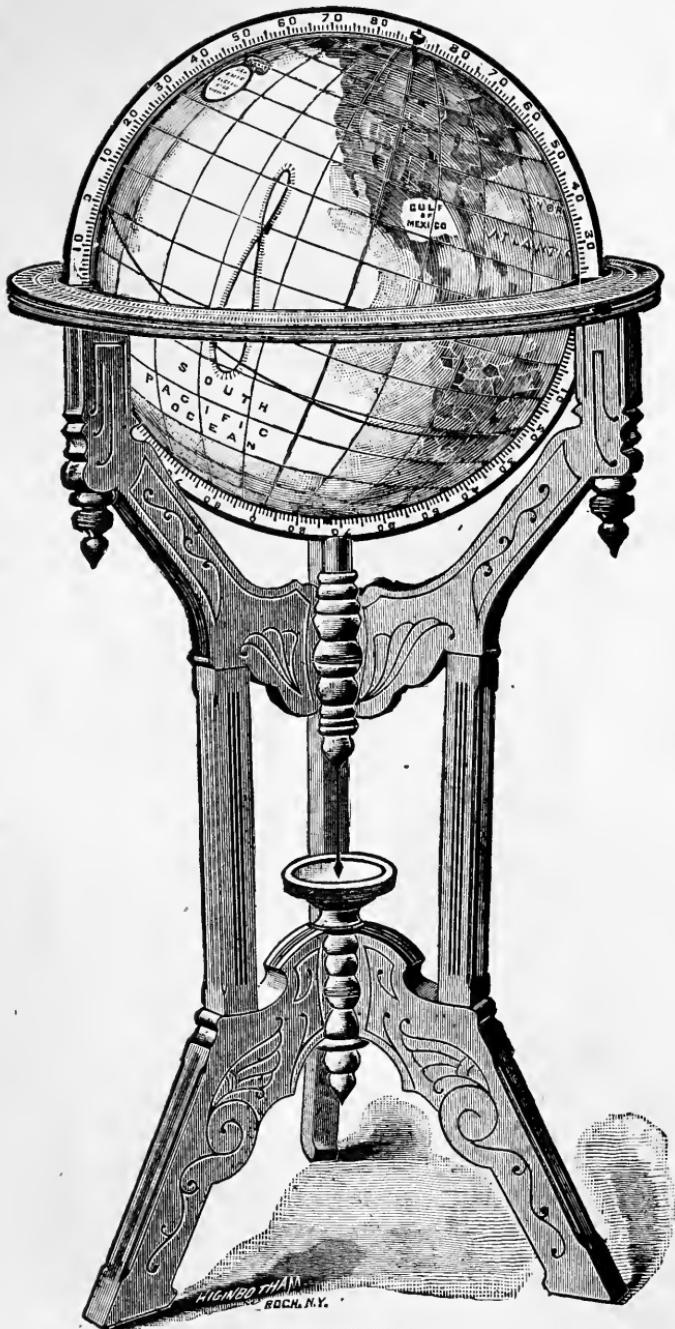
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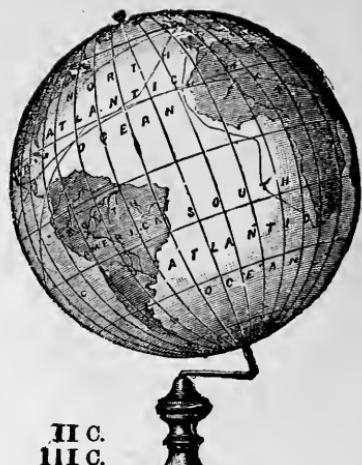


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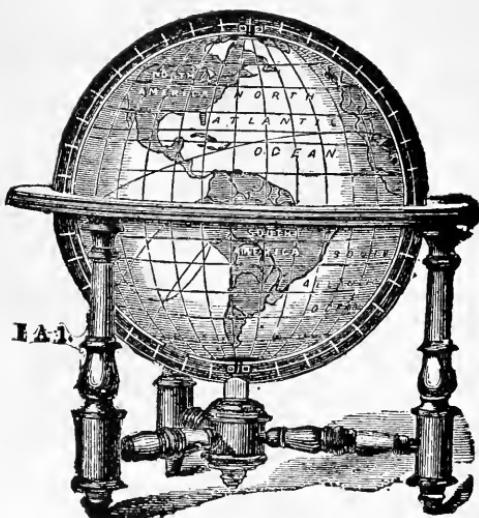
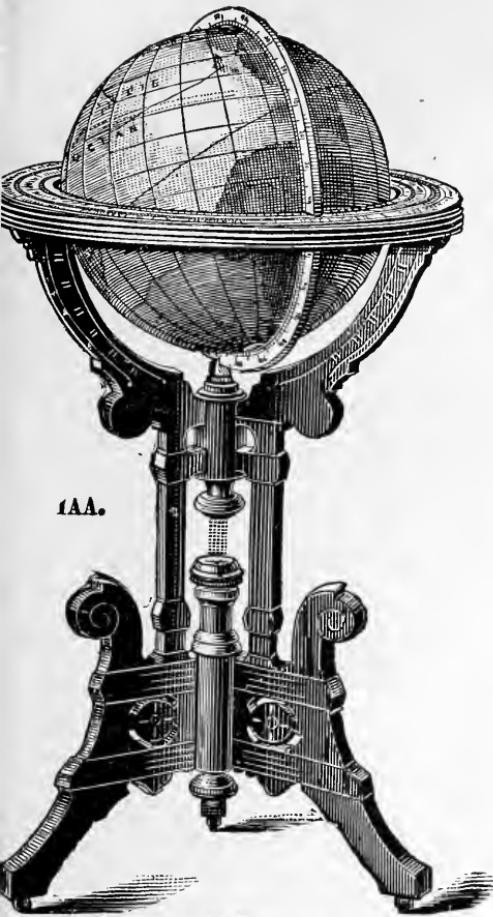
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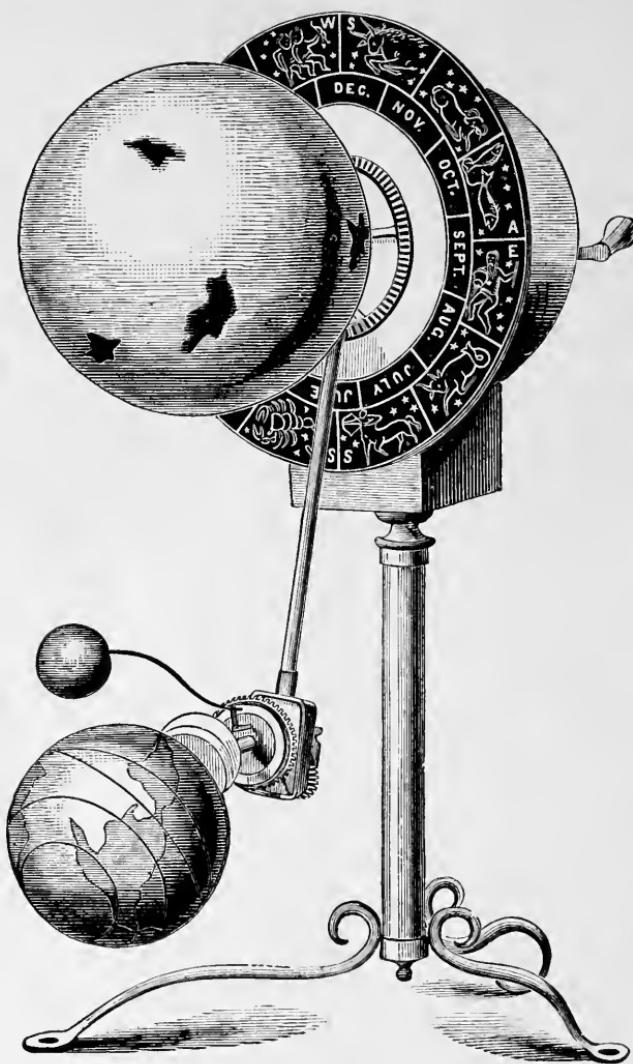
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COMMON GLASS INK WELL, per dozen50
IRON COVER, with hinge for common glass well50
BELL'S SWING COVER, Noiseless50
METALLIC INK WELLS, Glass Lined, complete	2.25
SCARLETT'S INK VENT, for pouring Ink	2.40

Tarr's Noiseless Pointer.

Patented August 14, 1883.

Section of pointer showing size of small end with rubber tip attached.



noise and saves expense. Price per dozen, net, three feet long, \$2.00.

Nice Hard-Wood Pointers.

3 feet long, \$1.00 per dozen. 3½ feet long, \$1.25 per dozen. 4 feet long, \$1.50 per dozen. 5 feet long, \$2.00 per dozen.



riveted in place. The pointer is supplied with a ring, and is in every way what a perfect article should be; above all, it is "A POINTER THAT POINTS."

Price, \$2.00 per dozen.

This pointer has an illuminated point; the eye without effort follows the bright red tip—in fact, it is a perfect beacon, showing what is indicated clearly from any part of the room.

The rods are of hickory, highly polished; the colored tips are of sole leather, soft and flexible, securely

fastened to the wood turned and polished, with a rubber tip securely fastened to the wood. Standard length, three feet. Prevents noise and saves expense. Price per dozen, net, three feet long, \$2.00.

YARDSTICK.

A good hard-wood yardstick accurately graduated to inches and eighths. Useful on the blackboard, and for general measurements. Price, ten cents.

SLATE PENCILS.

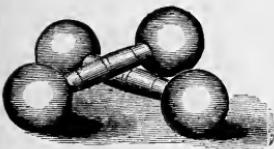
The German Slate Pencils fluctuate so much in price that it is difficult to catalogue them definitely, but the different lengths, 5½, 6½, and 7½ inches, are always kept in stock. Also pencils covered with gilt paper. Prices will be quoted on application.

Soapstone Slate Pencils always in stock, and furnished at the lowest market prices. Lengths, 4½, 5, 5½, 6, 6½, and 7 inches.

Composition Slate Pencils, 6-inch, \$15.00 per case of 100 boxes.

Our Gymnastic Apparatus is made of well-seasoned wood, and polished. Dumb-bells and Indian Clubs are made of maple; Wands of Black Walnut; Hand-rings are very strongly made of three sections—black walnut, cherry, and maple. Besides great strength, they have the merit of beautiful appearance.

WOODEN DUMB-BELLS.



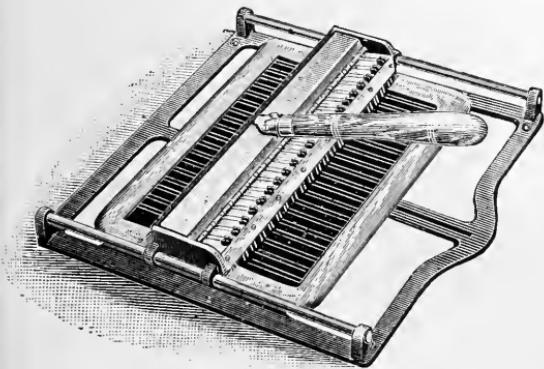
PRICE.

1 $\frac{3}{4}$ -inch balls, 5 $\frac{3}{4}$ ins. long.	Per pair, two pieces,	\$0.25
2-inch balls, 6 $\frac{1}{2}$ ins. long.	Per pair, two pieces,	.30
2 $\frac{1}{4}$ -inch balls, 7 $\frac{1}{2}$ ins. long.	Per pair, two pieces,	.35
2 $\frac{1}{2}$ -inch balls, 8 ins. long.	Per pair, two pieces,	.40

Larger sizes from 50 to 75 cents per pair.

RINGS—two sizes: No. 1, for children	per pair, \$0.75
No. 2, for youths and adults	" .75
WANDS—in required lengths, nicely turned	each .30
Manual of Calisthenics, illustrated, Watson	1.25
Handbook of Gymnastics, highly illustrated, Watson	2.00
Mason's Gymnastic Exercises . . . . .	.40
The New Calisthenics, by Mara L. Pratt, M.D.	1.25
Suggestions for Gymnastic Exercises for Schools, Helen C. Swazey . . . . .	.15

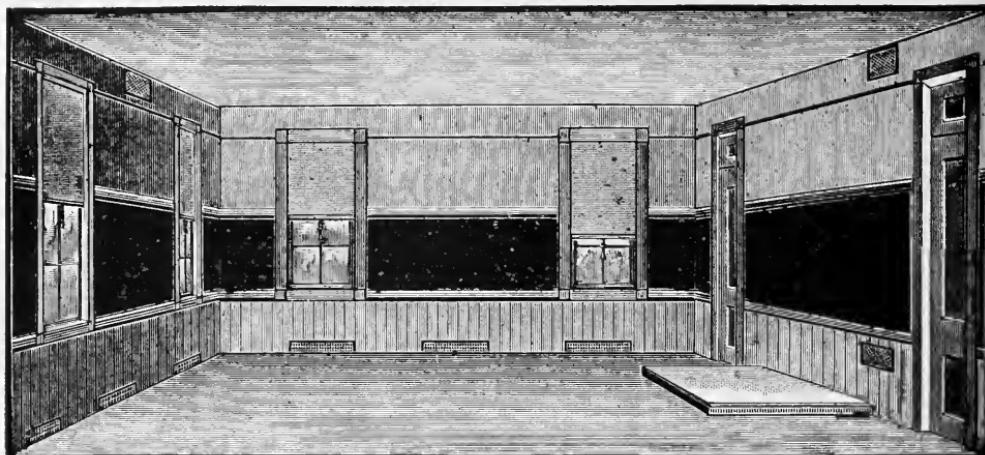
THE PERFECT SLATE RULER,



Represented by the cut on the left, is the best apparatus for ruling slates ever offered to the public. It can be adjusted to rule a slate of any size from 5 x 7 to 8 x 12, and the ruling of the entire slate is done by one stroke of the machine.

So much work in Primary Schools is now done on ruled slates, that a machine for ruling becomes a necessity in every schoolhouse. The lines on ruled slates soon become dim from use, and with this machine they can be reruled as many times as desired. Ten or twelve dozen can be easily ruled in an hour by the janitor or one of the older pupils. Price, \$10.00.

**The most substantial and durable Blackboards in existence.
The most perfect in quality, color, and finish.**



The fine appearance of a schoolroom when finished with Real Slate Blackboards is shown in the above cut.

Real Stone Slate Blackboards.

Why not have **Blackboards** made so they will last as long as the building stands, and **never need repair**? Why continue to use preparations of plastering, putty, and paint, which are constantly cracking and peeling, and always needing repair.

Facts for the Guidance of Boards of Education, School Officers and Superintendents in the Selection of Real Stone Slate Blackboards.

In the furnishing of school buildings with Real Stone Slate for Blackboards, great care should be exercised in selecting none but the **BEST QUALITY** of uniform dark, unfading color. There is a great difference in the quality of slate.

Durable slate Blackboards cannot be made from soft slate, which is only adapted to school slates. The best material is from hard beds of slate of dark color, without ribbon, which will not fade, discolor, or decompose.

The most important qualities of a good Blackboard are **DURABILITY, PROPER COLOR, AND THE ABSENCE OF REFLECTED LIGHT**, and the only material that meets all these requirements is **NATURAL SLATE STONE**. When properly fitted to the walls of a schoolroom, it will last as long as any other part of the building; there is no wear out to it, **CONSTANT USE ONLY IMPROVING IT**. Slate Blackboards have a **DEAD BLACK COLOR**, peculiar to themselves, which is pleasant to the eye, and work done upon them **CAN BE SEEN FROM ANY ANGLE**, it being impossible to cause a gloss whereby light will be reflected.

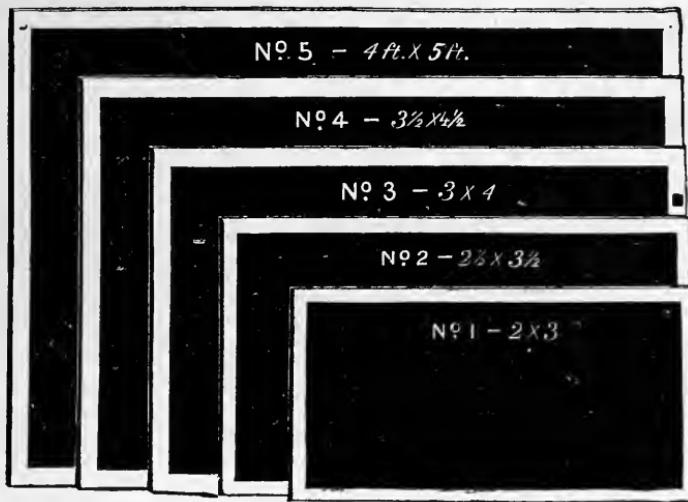
The surface of our Blackboards is **UNIFORM AND SMOOTH**. They are all "Extra Hand Rubbed," and brought to a **PERFECTLY SMOOTH FINISH**, so that a clear, white line can be made with the smallest amount of crayon used. **THIS IS AN IMPORTANT FEATURE, AND ONE FREQUENTLY OVERLOOKED BY MANUFACTURERS AND PURCHASERS.** A simple flat piece of slate is not a Blackboard until made so by careful finishing.

When once in position, they are **ABSOLUTELY FREE FROM INJURY OR DAMAGE**. If a new house is to be built, or any changes made, they can be taken down and put up without injury.

BLACKBOARDS AND SUPPORTS.

READY-MADE STANDARD SIZES.
PERFECT SLATE SURFACE.

IN NEAT ASH FRAMES. ANY SIZE
MADE TO ORDER.



PRICE OF BLACKBOARDS.

No. 1, size 2 x 3 feet, finished on both sides . . .	\$3.00
" 2, " 2½ x 3½ " " " " . . .	5.25
" 3, " 3 x 4 " " " " . . .	7.00
" 4, " 3½ x 4½ " " " " . . .	9.50
" 5, " 4 x 5 " " " " . . .	12.00
" 6, " 3 x 6 " " " " . . .	10.50

They are so framed that they are free to shrink or swell without possibility of splitting or warping.

Roll Blackboards of Cloth, 2 x 3 feet . . . \$1.00
" " " 2½ x 3½ feet . . . 1.50
" " " 3 x 4 feet . . . 2.00

Blackboard Cloth four feet wide, coated both sides, \$2.00 per yard.

Blackboard Cloth three feet wide, coated one side, \$1.25 per yard.

Large Easels, \$2.00

Smaller Easels, 1.50



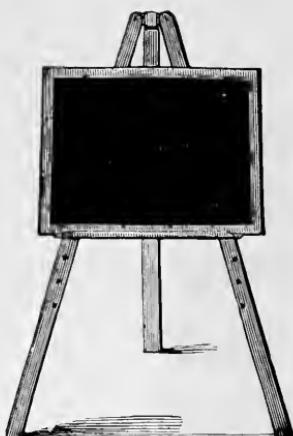
Hammond's Blackboard Support.

All the parts are firmly bolted together, and are taken apart for shipping.

The board revolves, thus making both sides available without moving the stand.

PRICE, To fit any of the standard sizes, \$5.00





TOY BLACKBOARDS.

No. 1 Size, 16 x 22 inches, finished both sides	\$.85
No. 2 Size, 22 x 26 inches, finished both sides, with Chalk Shelf	1.50
No. 3 Size, 24 x 36 inches, finished both sides, with Chalk Shelf	2.25
Toy Easel for either above sizes . . . . .	.75
Large Easel for either above sizes	1.50
Toy Box White Crayon . . . . .	.10
Toy Box Assorted Colored Crayon . . . . .	.25
Small Gem Eraser . . . . .	.10

CRAYONS.

Parmenter's White Crayon, Parmenter's Enamel Crayon, Parmenter's Colored Crayon, Parmenter's Square Crayons, for Lecturer's use, always in stock, and furnished at lowest market rates.

National Dustless Crayon, very durable \$.50 per gross.
Talc Crayon, last almost forever 2.50 per gross.

BLACKBOARD ERASERS.

MADE OF THE BEST WILTON CARPET.

Gem, size, 2½ x 6 inches	\$.75 per doz.
Small Gem, size, 2 x 5 inches . . . . .	.65 per doz.
Large Gem, size, 2 x 7 inches	1.00 per doz.
Best Quality Lamb's Wool Erasers	2.00 per doz.

These erasers are all made in our own shop, and the greatest care is taken to have them so made as to wear well, and with no sharp corners to injure the Blackboards.

Pointers, Blackboard Dividers, Blackboard Triangles; All Blackboard Supplies.



Black japanned, red, blue, and green, with paper wrapper.

REPAIRS.

We also make a Specialty of repairing Blackboards with Liquid Slating, Slated Cloth or Tag Board.

The attention of all persons building or repairing Schoolhouses is respectfully called to the following facts: If you have old plastering or wooden boards that you wish repaired or reslated; if you wish for Portable or Revolving Boards of wood or crystal; if you wish for Liquid Slating with which to do your own repairing; or if you wish the Natural Stone Slate, or Crystal,—you can have your work done in the best possible manner, and at the most reasonable rates, by one who has manufactured blackboards for over twenty years, and who also guarantees that all work shall be of the best quality.

N. B.—Blackboard Repairing in all its branches promptly attended to.

The Patent Crystal Blackboard.

It has the best surface ever offered for a Blackboard; it grows better by use, and will not wear out. It has no coating on the surface; hence will never need repair. It can be rendered perfectly dustless by the use of a damp eraser, as water does not injure it, even when constantly applied.

No. 1 Crystal Blackboard, 42 x 60 inches	\$8.00
“ 2 “ “ 31 x 40 “	4.50
“ 3 “ “ 22 x 40 “	3.75
“ 4 “ “ 21 x 30 “	2.50

Chalk Shelf, 50 cents extra.

Crystal Blackboard in Sheets ready to place for Permanent Wallboards, 40 cents per square foot.

Improved Liquid Slating.

PRODUCES A PERFECT SLATE SURFACE WHICH WILL NOT GLAZE.

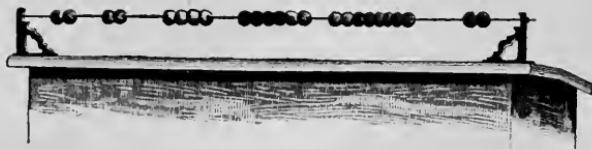
It makes a smooth and durable surface when applied to plaster, hard finish, paper, boards, old blackboards or walls.

Put up in tin cans with full directions for applying, and can be shipped to any part of the country.

A gallon is sufficient for 300 square feet, giving it three coats.

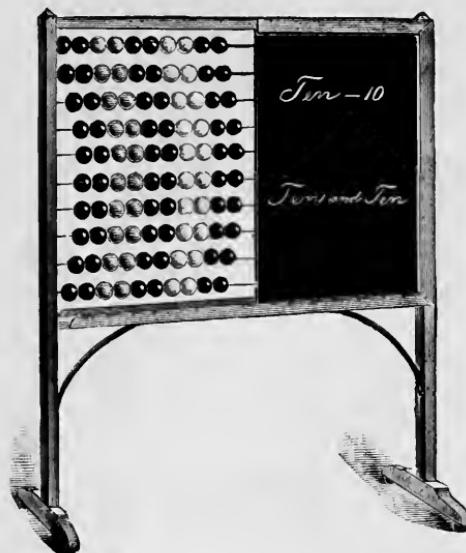
Prices: Pints, \$1.25; Quarts, \$2.00; Half-gallons, \$4.00; Gallons, \$7.00.

Brushes 5 inches wide for applying the Slating	\$1.00
Double Thick Brushes	1.50
Six-inch Double Thick Brushes	2.50



DESK NUMERAL FRAME.

This frame is adapted to the ordinary primary desk, which is eighteen inches long. A heavy wire is stretched between two japanned iron supports, which are fastened to the desk at the extreme front, out of the way of all other school exercises, but within easy reach of the child. We send simple directions with each order, so that any one with an awl and screw-driver can put the frames in place. Price, each, \$0.20; postage, \$0.14



COMBINATION NUMERAL FRAME AND BLACKBOARD.

Size, 36 x 57 inches, 68 inches high. Balls, five colors, 2 inches in diameter. The balls can all be concealed behind the Board, and presented to the pupil in such numbers, from one to one hundred, as the teacher desires to have under consideration at the time. Price, \$20.00.

HAND NUMERAL FRAMES

With 100 Balls, 60 cents.

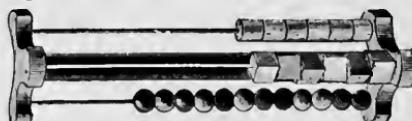
HAND NUMERAL FRAMES

With 144 Balls, 75 cents.



COLOR AND FORM COUNTER.

For the Instruction
and Amusement of
Children.



Price, 15 cents.

(Patented March 6, 1888.)

Designed especially for the use of pupils during their first and second years in school.

Among the most DESIRABLE, DURABLE and COMFORTABLE CHAIRS for the Platform and for Public Offices are the following. Prices furnished on application.



No. 357. NEW YORK OFFICE,
Wood Seat.



No. 208. OLD COLONY OFFICE,
Wood Seat.



No. 30 R. DOUGLASS OFFICE,
Wood Seat, Iron Rods.



No. 66 R. WASHBURN DINING,
Iron Rods.

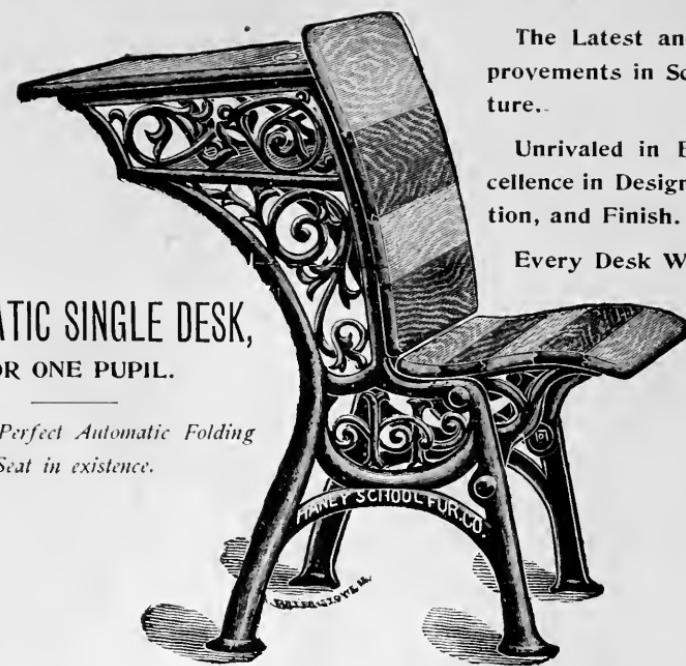
The Latest and Best Improvements in School Furniture..

Unrivaled in Beauty, Excellence in Design, Construction, and Finish.

Every Desk Warranted.

AUTOMATIC SINGLE DESK, FOR ONE PUPIL.

*The Most Perfect Automatic Folding
Seat in existence.*



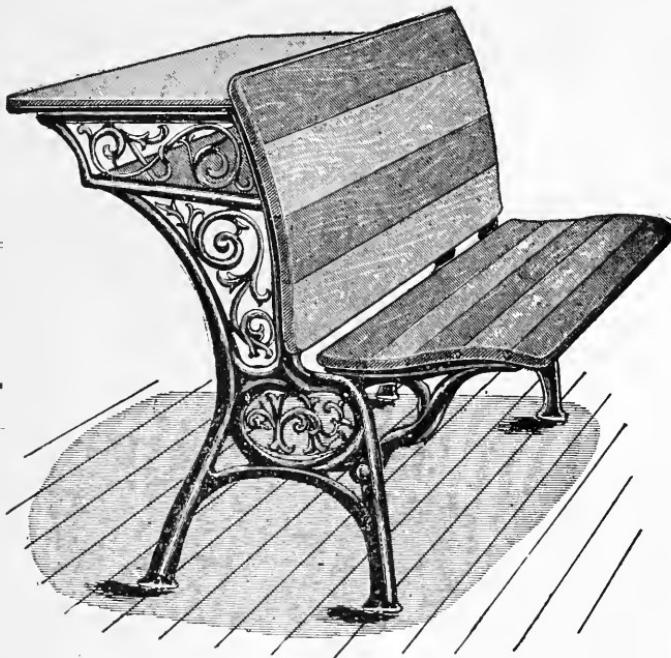
Single Seat and Desk for One Pupil.

No.	Length.	Height of Seat from floor.	Width of Top.	Height of Top of Desk from floor.	Distance of Desks apart measuring from back to back.	Age of Pupil occupying Seat.
1	24 inch.	16 inch.	15 inch.	30 inch.	28 inch.	16 to 21
2	24 "	15 "	15 "	29 "	28 "	14 to 18
3	21 "	14 "	13 "	27 "	25 "	11 to 15
4	21 "	13 "	13 "	26 "	25 "	9 to 13
5	18 "	12 "	11 "	24 "	22 "	7 to 10
6	18 "	11 "	11 "	23 "	22 "	5 to 8

Double Seat and Desk for Two Pupils.

No.	Length.	Height of Seat from floor.	Width of Top.	Height of Top of Desk from floor.	Distance of Desks apart measuring from back to back.	Age of Pupil occupying Seat.
1	45 inch.	16 inch.	15 inch.	30 inch.	28 inch.	16 to 21
2	45 "	15 "	15 "	29 "	28 "	14 to 18
3	39 "	14 "	13 "	27 "	25 "	11 to 15
4	39 "	13 "	13 "	26 "	25 "	9 to 13
5	33 "	12 "	11 "	24 "	22 "	7 to 10
6	33 "	11 "	11 "	23 "	22 "	5 to 8

Our No. 1 and 2 Double Desk is 45 inches long, or 4 inches longer than those made by other factories. This gives each student sufficient room to write without interruption. Don't buy a 40 or 41 inch Double Desk. All our Desks have our renowned Automatic Seat Fold, and are constructed with a view to comfort, durability and convenience.

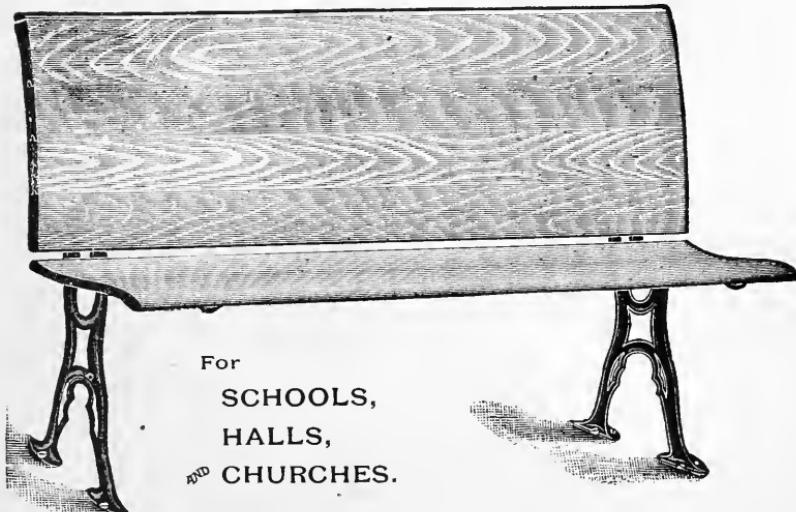


ALL OUR
DESKS ARE
WARRANTED.

FOR SIZES AND
DIMENSIONS
SEE PAGE 78.

AUTOMATIC DOUBLE DESK.

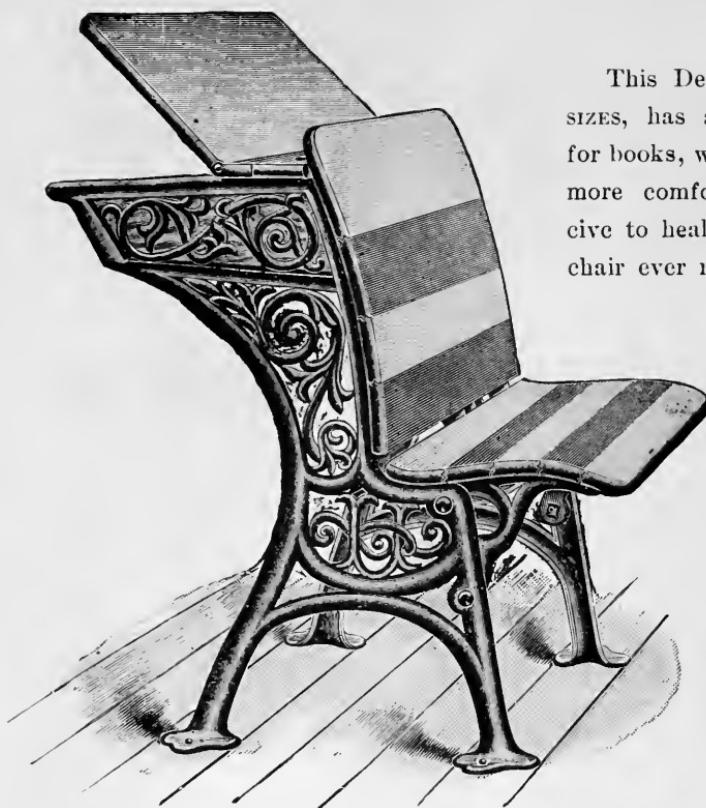
(FOR TWO PUPILS.)



For
SCHOOLS,
HALLS,
AND CHURCHES.

A STRONG AND COMFORTABLE SEAT.

It is Handsomely Finished and made to Fold.



This Desk is made in two sizes, has a very roomy box for books, with a seat and back more comfortable and conducive to health than any school chair ever made.

Students' Chair,

With .

Writing Attachment.

This chair has proved a great convenience in class rooms where written examinations are required, and also for taking notes in lecture rooms.

Price, per dozen, \$27.00.





Guide to Grades and Sizes of Single Seats and Desks.

	No.	Height of Desk.	Height of Chair.	Size of Top.	Age of Scholars.
Normal Lid,	0	30 $\frac{1}{4}$	17 $\frac{1}{4}$	20 x 26	Normal
Grammar,	1	29 $\frac{3}{4}$	17	16 x 24	Adults
"	2	28 $\frac{1}{4}$	15 $\frac{1}{4}$	16 x 24	14 to 18
"	3	26 $\frac{1}{2}$	14 $\frac{1}{2}$	15 x 24	12 to 16
"	4	24 $\frac{3}{4}$	13 $\frac{1}{4}$	15 x 24	10 to 14
Intermed.,	3	26 $\frac{1}{2}$	14 $\frac{1}{2}$	13 x 21	12 to 16
"	4	24 $\frac{3}{4}$	13 $\frac{1}{4}$	13 x 21	10 to 14
"	5	23	12	13 x 21	8 to 12
"	6	21 $\frac{1}{4}$	11	13 x 21	6 to 10
Primary,	4	24 $\frac{3}{4}$	13 $\frac{1}{4}$	12 x 18	10 to 14
"	5	23	12	12 x 18	8 to 12
"	6	21 $\frac{1}{4}$	11	12 x 18	6 to 10
"	7	20 $\frac{1}{2}$	10 $\frac{1}{4}$	12 x 18	5 to 6

Double Seats and Desks. } Size of Primary Desks, 12 x 36
} Size of Intermediate Desks, 13 x 39
} Size of Grammar Desks, 15 x 42



BOSTON GIRLS'
HIGH AND NORMAL SCHOOL DESK.

This cut represents the desk furnished the Boston Girls' High and Normal School, 1870, which is for convenience and durability pronounced the best now in use in the country. It has a lid to lift, and furnishes within ample space for books and other study apparatus.



*The Handsomest, Strongest
and Best
ADJUSTABLE DESK
in the Market.*

*Best Brands of Iron,
Japanned Castings.*

*Thoroughly Seasoned and
Kiln-dried Lumber.*

*Red Birch, Cherry, Plain and
Quartered Oak.*

We also furnish Castings without Woodwork, Desks without Chairs, and vice versa.

Our System of Scales for height of pupil, desk and seat is based upon the measurements of over 125,000 children. It embodies the recommendations of the

*Vienna, Frankfort,
Prague, and
St. Petersburg*

*SCHOOL DESK
COMMISSIONS.*

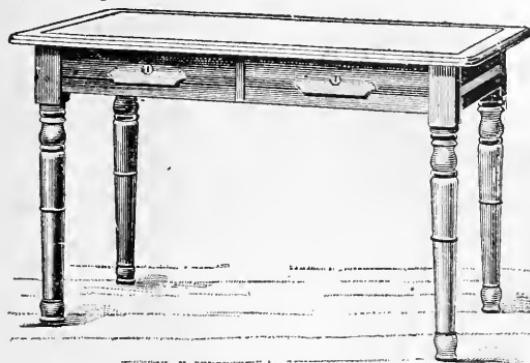
The best authorities of this country have been consulted, and their recommendations have been adopted.

The lid of the desk is bound on its sides, to prevent warping. It has counter-sunk brass hinges, a pencil tray in the desk, a lid supporter, and rubber buffers, making it noiseless when dropped.

We also manufacture a special lid desk, size 16 x 21 inches, which may be used with the No. 1, No. 2, or No. 3 castings.



Made of solid, kiln-dried Walnut, Cherry or Oak. Enamel cloth or imitation leather top. Smooth, rubbed-down finish.



No. 7.

OFFICE TABLE.

Made 3, 3 1-2, 4, 4 1-2, 5,
and 6 feet in length.

Prices given on application.



No. 1 DESK.

42 in. long, 26 in. wide.



NO. 2. DESK.
48 in. long, 27 in. wide.
Finished on Back Side.
Has one Centre and Seven Side Drawers,
one of them double
usual depth for books,
or can be made with
door at same price.



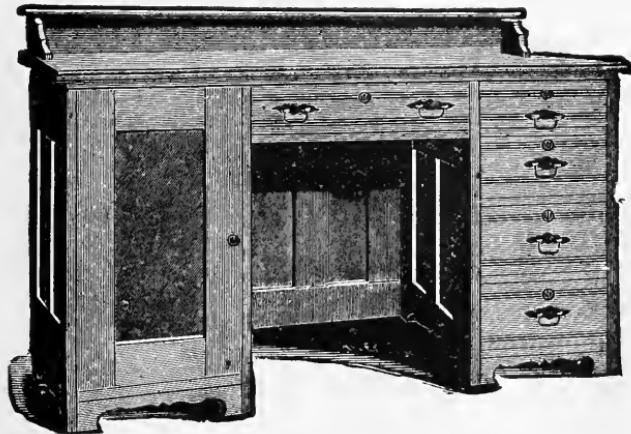
No. 77. TEACHER'S DESK.

Size, 42 inches long, 27 inches deep. Oak, Walnut, and Cherry. Made full paneled side and back, with rail on top. Polish finish. All drawers lock. This makes the best teacher's desk offered for the price.



No. 78. TEACHER'S DESK.

Size, 48 inches long, 27 inches wide. Oak, Walnut, and Cherry. Made full paneled back with rail on top. Thoroughly kiln-dried stock; nice polish finish. All drawers lock. Deep book drawer. Imitation leather or enamel cloth top. Also made polished wood top; covered with billiard cloth at extra cost of 75 cents.

**TEACHER'S DESK, No. 5.**

Size of top, 54 x 26 inches; covered with fine Enameled Cloth; closed ends and sides; five drawers and door; nicely paneled; made of Oak; well finished.

**No. 3.****No. 4.****TEACHER'S DESK, No. 3.**

Size of top, 42 x 26 inches; covered with fine Enamel Cloth; closed ends and sides; two drawers; nicely paneled; made of Oak; well finished.

TEACHER'S DESK, No. 4.

Size of top, 46 x 26 inches; covered with fine Enameled Cloth; closed ends and sides; two drawers and door; nicely paneled; made of Oak; well finished.

THE WINCHESTER SCHOOL DESK AND CHAIR.
Seven Sizes. See page 80.



Rotary and Spring Office Chair.

A NEW LINE OF HAND BELLS.

Cut A represents a line of Swiss Hand Bells made of pure metal, finely polished, and having beautiful Horn Handles. They have a much richer sound than the ordinary hand bell, and are so constructed as to be much more durable.

TINNED.

No. 2.	2½ inches diameter, per doz.	. \$3.00
4.	3⅓ "	. 4.50
6.	3¾ "	. 6.75
8.	4¾ "	. 11.25
10.	5½ "	. 19.12
12.	6¾ "	. 28.87

NICKEL PLATED.

No. 2.	Per dozen	. . . . .	\$4.00
4.	"	. . . . .	6.00
6.	"	. . . . .	9.00
8.	"	. . . . .	15.00
10.	"	. . . . .	25.50
12.	"	. . . . .	38.50

CUT B

REPRESENTS THE

Heaviest, Thickest, Hand Bell Made.

Only Two Sizes.

No. 14.	Per dozen	. . . . .	\$24.00	
No. 16.	Per dozen	. . . . .	37.50	

No. 14. 7½ inches diameter.
No. 16. 8 inches diameter.

These bells are much admired in Turkey and India for their size and weight.

Liberal Discounts from above Prices.



CUT A.



CUT B.

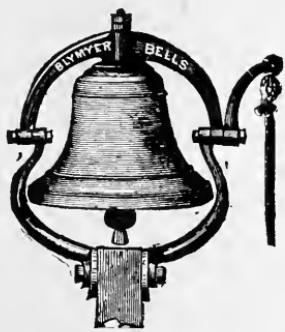


No. 2.

Size Diameter.	Weight of Bell.	Bell and Mountings.	Price.
24 in.	165 lbs.	300 lbs.	\$35.00
26 in.	200 lbs.	350 lbs.	45.00
28 in.	225 lbs.	375 lbs.	55.00

Above prices include bell and mountings (yoke, frame, and wheel), as shown in engraving No. 2. If tolling-hammer is wanted, add \$3.00 to above prices.

Engraving No. 2 represents the Blymyer Bells and mountings, 24-inch, 26-inch, and 28-inch, for Churches, Schools, Factories, Steamboats, etc.



No. 3.



No. 4.

The engravings Nos. 3 and 4 represent the Blymyer Bells from 18 to 24 inches, inclusive. These bells will be furnished with mountings as in No. 3 or No. 4, as may be preferred. The bells will be sent with mountings as in engraving No. 3 unless those in No. 4 are specially ordered.

Size Diameter.	Weight of Bell.	Style 3. Price.	Style 4. Price.
18-inch . . .	75 lbs. . .	\$13.00 . . .	\$13.00
20-inch . . .	100 lbs. . .	18.00 . . .	18.00
24-inch . . .	165 lbs. . .	25.00 . . .	25.00

Above weights do not include mountings.

Prices include bell and mountings as in engravings Nos. 3 or 4.

These bells are cast from a metal—in large part an extra fine quality of steel—used only by the makers, and are entirely different from all other bells. They should be judged on their own merits, and not be confounded with the various kinds of iron, or (so-called) steel-composition, steel-amalgam, and steel-alloy bells.

The Blymyer Bells should be compared in price only with the Copper-and-Tin Bells, for these alone rival them in sweetness and power of tone and durability.



No. 1.

Engraving No. 1 represents the Blymyer Bells and mountings, 30-inch to 54-inch, inclusive, for Churches, Schools, Court-houses, etc.

Prices include bell and mountings (yoke, frame, wheel, and tolling-hammer), as shown in engraving No. 1. If tolling-hammer is not wanted, its value will be deducted from price of bell.

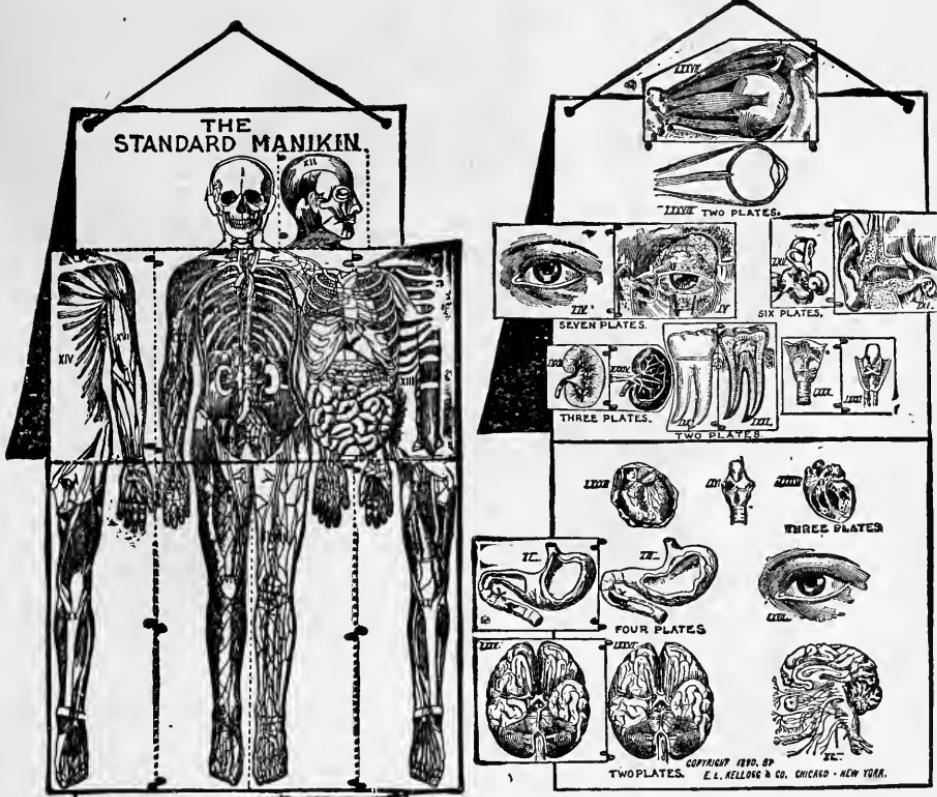
Size Diameter.	Weight of Bell.	Bell and Mountings.	Price.
30 inches.	300 lbs.	500 lbs.	\$70.00
32 inches.	375 lbs.	550 lbs.	80.00
34 inches.	450 lbs.	700 lbs.	90.00
36 inches.	525 lbs.	750 lbs.	100.00
38 inches.	600 lbs.	950 lbs.	120.00
40 inches.	800 lbs.	1,100 lbs.	140.00
42 inches.	850 lbs.	1,200 lbs.	160.00
44 inches.	1,000 lbs.	1,400 lbs.	180.00
46 inches.	1,100 lbs.	1,500 lbs.	200.00
48 inches.	1,325 lbs.	1,800 lbs.	230.00
50 inches.	1,600 lbs.	2,200 lbs.	260.00
52 inches.	1,800 lbs.	2,500 lbs.	300.00
54 inches.	2,000 lbs.	2,900 lbs.	350.00

From the STANDARD, Chicago.

A good bell for our meeting-houses, offered at a price within reach of our less able churches, is a want of great magnitude. The Blymyer Bells meet this demand more fully than anything hitherto offered to the public. In fact, it would seem that these bells are so perfect, and sold at such a moderate price, as fully to meet the want.

FIRST VIEW.—Showing Manikin of the entire body, one half life size in its normal condition.

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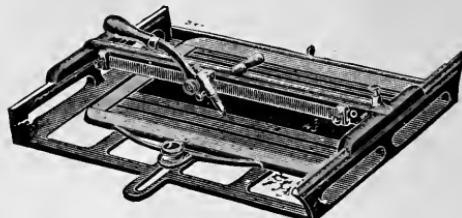
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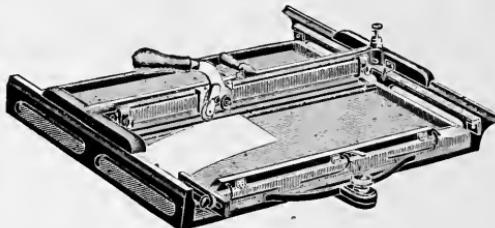


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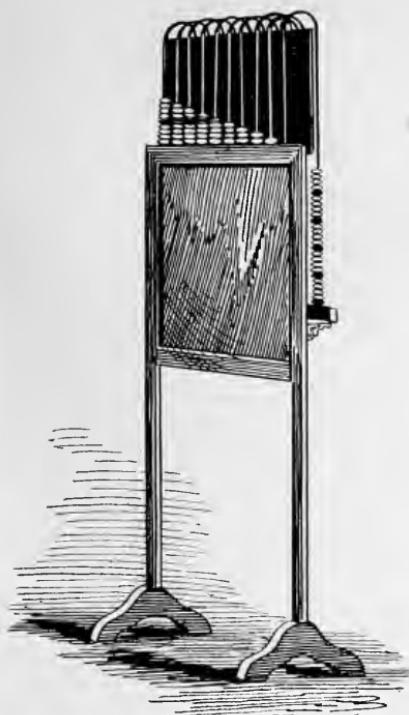
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